

Caldwell

STEEL AND
WOOD TANKS
AND TOWERS

1912



W.E. CALDWELL CO
INCORPORATED
LOUISVILLE KY

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TERMS AND CONDITIONS

Prices are subject to change without notice.

Terms are net cash, 30 days from date of shipment, unless otherwise specified.

Where we erect either tanks or towers, final payment is due upon completion of the work, or within not more than 15 days thereafter at the utmost.

If customers do the erecting, we require payment to be made in the time agreed upon, whether the erection has been completed or not.

Our responsibility for delivery ceases when we secure a signed bill of lading from the Transportation Company for goods received in good order.

Customers must look to the R. R. Co. for any loss due to delay in delivery or damage sustained in transit. We are always glad to file claims for them when desired.

Claims must be made within 15 days after receipt of the goods.

If goods are not as ordered, or will not go together properly, customer must notify us and we will promptly ship correct parts or authorize him to have trouble corrected.

No claims for repairs of any kind, or for the replacing of materials, will be allowed unless we authorize same.

All Galvanized Steel Tanks that we ship set up, are carefully tested to see that they are water-tight before being shipped, and purchasers are cautioned to examine such tanks thoroughly before accepting them from the Railway Company, as we cannot allow any charges for resoldering them, or repairing of any other kind.

Wood Tanks are shipped knocked down and well crated; where requested, we send suggestions explaining how erection should be done.

Receiving a tank or tower and setting it up, constitutes an acceptance of it.

We cannot accept the return of any goods, as all tanks, towers, etc., are made up especially for each order.

When goods are ordered without details being specified, we will furnish what we think is suitable, and at our regular prevailing prices.

All contracts for the completion of work in a specified time are subject to fires, strikes, delays of Transportation Companies, breakage of machinery, accidents or other causes beyond our control.



Twenty-Third Annual Edition

W. E. CALDWELL, President

H. B. WINTERSMITH
Vice-President

R. E. MILLER
Secretary

Established 1887

Incorporated 1892

1912

"THE TANK WITH A REPUTATION"

IN THIS year's catalogue, greater prominence is given to the different styles of wooden tanks we build, as we find the demand for tanks for special purposes one of rapidly growing proportions. While the different types of tanks illustrated represent the largest portion of our trade, we nevertheless have omitted many other types that we also construct. There is, in fact, no kind of wooden tank we do not build, and what is of more importance—the expert knowledge and skill represented by our pre-eminence of a quarter of a century in this line, give substantial assurance that whatever the kind of tank, it will be built in the most workmanlike manner and of the best materials. It is because of the rigid maintenance of a very high standard in this work that the Caldwell Tanks have become known as "The Tank with a Reputation."

Although we use Cypress in a large part of our work, we also employ the other tank woods, White Pine, Yellow Pine and Poplar, where they are better suited to the purpose, and we constantly maintain large stocks of each on our yards. We use Fir to some extent, also.

Attention was called last year to our New Structural Steel Shop, illustrated in cut on outside back cover page, and we repeat what we said then to the effect that we have a thoroughly complete and modern equipment for the economical production of heavy steel tank work of all kinds, as well as Structural Steel Towers. As we also have our own Foundry and Machine Shop, we can furnish any kind of iron work required for special tanks.

Besides this catalogue, we also issue our "Catalogue de Luxe," of tanks and towers for all purposes, a "Water Supply Catalogue," a "View Book of Water Works Systems for Country Homes," a "Special Galvanized Tank Catalogue," a sixty-four-page book of Photographic Views of large outfits, and a Book of Testimonials from one hundred customers.



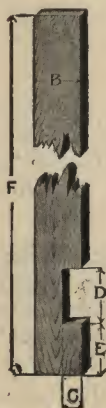
ROUND WOODEN TANKS



The distinguishing features of the Caldwell Tanks have always been the quality of material, the accuracy of workmanship, and the extra heavy hooping; and of the three items, the first should be singled out especially, because we attribute the wide-spread reputation of our tanks to it, more than anything else. This is not to be wondered at, in view of the fact that much of this lumber (particularly in tanks of any size) is such clear stock that it seems a shame to put it into ordinary water tanks. And when it is pointed out that the kind of lumber used is the famous Red Cypress, which is noted as being the longest lived wood there is, it is easily understood why our tanks should have made such a reputation for durability and satisfaction.

Of course this kind of service would not be secured except from the best grade of Cypress lumber, such as we have always used. While the inferior grades of Cypress will last longer than the same grade of other lumber employed for the same purpose, only the best grade will give the service demanded of a first class tank.

Aside from its great durability, Cypress is a wood that gives off no taste or taint or odor of any kind, so it is the ideal material for tanks to hold Cider, Vinegar, Extracts, Syrups, etc., where any taint would be injurious to the contents.



WOODEN TANK DETAILS

SECTION OF TANK STAVES AND BOTTOMS

Showing Finished Measurements
in Inches

A—Thickness in rough.....	1½"	2"	2½"	3"	4"	6"	8"
B—Thickness of staves.....	1¾"	1¾"	2¼"	2¾"	3½"	5½"	7½"
C—Depth of croze.....	¾"	½"	5⁄8"	5⁄8"	¾"	7⁄8"	1"
D—Width of croze.....	1½"	1½"	2"	2½"	3¾"	5¾"	7¾"
E—Length of chime.....	3¾"	3¾"	3½"	3½"	3¾"	4½"	5½"
G—Thickness of bottom.....	1¾"	1¾"	2¾"	2¾"	3¾"	5½"	7½"
H—Thickness of beveled edge.....	1½"	1½"	2½"	2½"	3½"	5½"	7½"
J—Thickness of bevel.....	¾"	¾"	1½"	1½"	2"	3"	3"
K—Length of bevel.....	1¾"	1¾"	1¾"	1¾"	1¾"	1¾"	1¾"





Dress a Thin Shaving Off the Edge of the Bottom to Make a Driving Fit with the Croze in the Staves.

Yellow Pine is also coming into use for general purposes much more extensively, and particularly in tanks of large size, where Cypress is so much more expensive proportionately, on account of the rapid increase in cost of the Cypress as the lengths of lumber increase above 16 feet. White Pine we furnish only for ordinary water tanks, where something cheaper than Cypress is wanted, and in Brine Tanks or Pickle Tanks. Fir we use for Water and for Cider and Vinegar, it being less costly than Cypress, and reasonably durable.

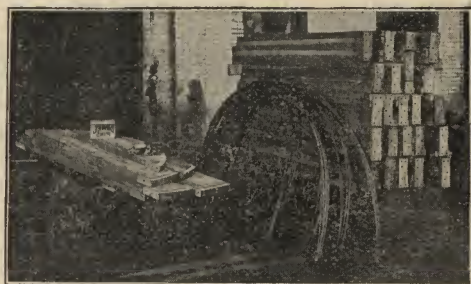
In the manufacture of our tanks, the bottom pieces are dressed, ripped, jointed and well doweled and the edges chamfered for the croze or groove in the staves but left a little bit thicker so that a thin shaving can be taken off with a hand plane in erecting. The staves are dressed, ripped and jointed and the croze or groove cut to suit the circle of the bottom and the taper of the tank.

The hoops nowadays are generally round, instead of flat, and we use iron instead of steel, as it will not rust as easily. These hoops are furnished of the exact lengths necessary to suit the taper of the tank and are bent to the proper circle and the ends threaded for the nuts that are furnished to hold on the lugs, and these are malleable, not cast iron, as is often used by others.

The bottom pieces of all tanks are marked and numbered, as are the hoops, but the staves are not, as they will go in anywhere they are placed, it only being necessary to fit the last stave. We always send a few inches extra in width so this can be done. A Blue Print plan is supplied showing how to space the hoops so that each will bear the strain it is calculated for and no more.

Particular attention is paid to the crating of our tanks, as shown in illustration, and to having all crates and pieces plainly stenciled with the name and destination, so that we have a minimum of complaints of broken crates or lost pieces, although a large percentage of our shipments is to points in New England, Canada and west of the Mississippi.

Note:—Prices are given on Pages 5, 6, 7, 8, and the standard sizes of Tanks are printed in large type.



KEY TO PRICE LIST OF ROUND WOODEN TANKS

Tell Us	Capacity in gallons, not in barrels; or state inside diameter and inside depth, or outside height, thickness and kind of lumber and intended purpose; also if a Cover (P. 16-17), Gauge (Inside Back Cover Page), Tower (P. 23-33), or other article, is wanted.
Capacities	Are based on straight staves.
Taper	All tanks are regularly built with a taper of one inch to the foot.
Dimensions	Are given for inside measurements for both diameter and depth; for outside length of stave, add for 1½ inch lumber 4½ inches; 2 inch, 5 inches; 2½ inch and 3 inch, 6 inches.
Standard Sizes	Tanks listed are the standard sizes that cut to best advantage from standard lengths of lumber, which comes in lengths of even feet. We can supply tanks of any other sizes that may be required.
Material	Is Cypress, White Pine, Yellow Pine, Fir and Poplar.
When to Use Each	See Pages 2 and 3.
Thicknesses Used	Cypress is furnished in 1½, 2, 2½, 3 and 4 inch; White Pine and Poplar, in 2 inch only and in sizes not over 16 feet diameter or 15 feet 5 inches deep; Yellow Pine, in 2, 3, 4 and 6 inch; Fir in 2 and 3 inch.
Thicknesses Recommended	Cypress—1½ inch for tanks not over 8 feet 0 inch diameter and 7 feet 5 inches deep; 2 inch for tanks not over 16 feet 0 inch diameter and 15 feet 5 inches deep (although 2 inch is often used in 18 and 20 feet diameter tanks); 2½ inch for tanks 16 to 20 feet diameter inclusive; and 3 inch or larger sizes. 2½ inch Cypress may be used for staves with 3 inch bottoms up to 24 feet diameter by 20 feet high. Note —The above is for ordinary purposes. Thickness must be increased for Special Purposes. White Pine and Poplar—2 inch for tanks not over 16 feet diameter and 15 feet 5 inches deep. Fir—2 inch for tanks not over 16 feet diameter and 15 feet 5 inches deep; 3 inch or larger sizes. Yellow Pine—Same as Fir, except for Acid Tanks, which are sometimes 4 and 6 inches.
List Prices	Are alike for the different woods, but discounts differ. The same lists are also used for both 1½ and 2 inch Cypress, but different discounts apply.
Discounts	Discounts and freight rates will be quoted on application; or we will name net delivered prices if size of tank is given.
Hoops and Lugs	Round hoops with lugs are standard and are furnished unless otherwise specified. Round hoop sections are not over 20 to 22 feet long and one lug is furnished for each section. Flat Hoops with lugs will be furnished where preferred, but hoop sections are longer. One lug to each hoop is supplied for tanks 16 feet diameter and less, two for tanks 17 to 24 feet inclusive, and three for 26 to 30 feet inclusive. Flat Hoops can be furnished to rivet together at a lower price, but we advise the use of lugs as their cost may be saved in labor alone in setting up tank.
Galvanized Hoops and Lugs	These hoops and lugs (either round or flat) can be furnished galvanized at a slight additional cost.
Shipping Weights	Are the same for Cypress, White Pine, Poplar and Fir. Yellow Pine weighs about 40 per cent more than Cypress. 1½ inch Cypress weighs about 20 per cent less than weights given for 2 inch.
Method of Shipment	Tanks are never put together at the factory, but are got out from standard templates and shipped knocked down, and well crated. Enough staves are sent to allow for dressing off and fitting in the last one. Hoops are cut to lengths and a plan supplied showing how to space them.
Erection	Prices for erection will be supplied where desired.
Foundation Plans	We can furnish customer plans for building foundations for tank to suit any conditions.
Other Prices	Prices for Plain Round Tanks are listed on Pages 5, 6, 7 and 8. Prices for other styles illustrated or any other kind wanted, will be quoted on application.



LIST PRICES OF ROUND TANKS

Cypress, White Pine, Yellow Pine, Fir and Poplar

List prices are the same for all but discount is different.

Prices and weights are for 2-inch Tanks.

See Description on Pages 2 and 3 and Key to Price List on Page 4.

Number	Gallons	Inside Diameter	Inside Depth	Number of Hoops	Shipping Weight Lbs.	Price f. o. b. Louisville
		Ft. In.	Ft. In.			
1	127	3.0	2.5	3	200	\$ 10.20
2	158	"	3.0	3	225	11.53
3	180	"	3.5	4	257	13.37
4	174	3.6	2.5	3	255	12.45
5	216	"	3.0	3	277	13.40
6	246	"	3.5	4	303	14.80
7	226	4.0	2.5	3	282	13.27
8	281	"	3.0	3	315	14.88
9	321	"	3.5	4	358	17.13
10	413	"	4.5	4	423	20.10
11	288	4.6	2.5	3	340	14.35
12	357	"	3.0	3	367	16.03
13	407	"	3.5	4	402	17.95
14	526	"	4.5	4	475	27.45
15	501	5.0	3.5	4	445	19.42
16	587	"	4.0	4	500	22.20
17	648	"	4.5	4	538	23.82
18	794	"	5.5	5	596	27.04
19	317	6.0	1.5	2	355	14.58
20	422	"	2.0	3	399	16.23
21	527	"	2.5	3	458	18.95
22	720	"	3.5	4	566	23.75
23	845	"	4.0	4	614	25.78
24	934	"	4.5	4	664	27.90
25	1145	"	5.5	5	766	32.23
26	1356	"	6.5	6	877	37.37
27	1567	"	7.5	7	965	40.67
28	1778	"	8.5	7	1076	45.80
29	1989	"	9.5	8	1191	51.32
30	1096	6.6	4.5	4	732	30.50
31	1344	"	5.5	5	843	35.17
32	*1592	"	6.5	6	964	40.70
33	1840	"	7.5	7	1060	44.30
34	2088	"	8.5	7	1181	49.82
35	2336	"	9.5	8	1306	55.73
36	1271	7.0	4.5	4	796	33.17
37	1659	"	5.5	5	919	38.56
38	1847	"	6.5	6	1046	44.32
39	2135	"	7.5	7	1150	48.50
40	2423	"	8.5	7	1277	54.22
41	2711	"	9.5	8	1407	60.32
42	1790	7.6	5.5	5	1002	41.74
43	*2120	"	6.5	6	1139	47.89
44	2450	"	7.5	7	1251	52.32
45	2780	"	8.5	7	1388	58.48
46	3110	"	9.5	8	1528	64.97

Sizes printed in black type are the standard sizes for the capacity mentioned.

*Sizes marked with a star preceding are the standard sizes used with our towers.

See page 22.

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.

LIST PRICES OF ROUND TANKS

Cypress, White Pine, Yellow Pine, Fir and Poplar

List Prices are the same for all but discount is different.

Prices and weights are for 2-inch Tanks.

See Description on Pages 2 and 3 and Key to Price List on Page 4.

Number	Gallons	Inside Diameter	Inside Depth	Number of Hoops	Shipping Weight Lbs.	Price f. o. b. Louisville
		Ft. In.	Ft. In.			
47	563	8.0	1.5	2	552	\$ 23.03
48	751	"	2.0	3	610	25.19
49	939	"	2.5	3	689	28.86
50	1294	"	3.5	4	840	35.85
51	1656	"	4.5	4	989	42.72
52	2031	"	5.5	5	1096	47.10
53	2406	"	6.5	6	1248	53.48
54	*2781	"	7.5	7	1372	58.41
55	3156	"	8.5	7	1502	63.84
56	3531	"	9.5	8	1658	70.15
57	4281	"	11.5	10	1924	81.42
58	2299	8.6	5.5	5	1190	50.34
59	2723	"	6.5	6	1314	55.27
60	3148	"	7.5	7	1462	61.83
61	3572	"	8.5	7	1616	68.63
62	3696	"	9.5	8	1768	74.42
63	4844	"	11.5	10	2053	86.39
64	2577	9.0	5.5	5	1260	52.98
65	3053	"	6.5	6	1394	58.33
66	3529	"	7.5	7	1553	65.31
67	4004	"	8.5	7	1711	72.29
68	4479	"	9.5	8	1883	79.31
69	5429	"	11.5	10	2179	91.71
70	881	10.0	1.5	2	765	31.13
71	1175	"	2.0	3	837	33.83
72	1468	"	2.5	3	945	38.95
73	2006	"	3.5	4	1124	46.71
74	2592	"	4.5	4	1274	52.60
75	3182	"	5.5	5	1454	60.42
76	3770	"	6.5	6	1608	66.55
77	4357	"	7.5	7	1784	74.19
78	4945	"	8.5	7	1971	82.56
79	*5532	"	9.5	8	2158	90.62
80	6706	"	11.5	10	2516	105.14
81	7880	"	13.5	11	2873	120.39
82	6100	10.6	9.5	8	2314	96.87
83	1269	12.0	1.5	2	1020	41.10
84	1692	"	2.0	3	1140	46.39
85	2115	"	2.5	3	1226	49.63
86	2891	"	3.5	4	1414	57.27
87	3737	"	4.5	4	1620	65.80
88	4582	"	5.5	5	1843	75.61
89	5428	"	6.5	6	2065	85.96
90	6274	"	7.5	7	2280	94.56
91	7110	"	8.5	7	2494	103.90
92	7956	"	9.5	8	2682	111.29
93	9658	"	11.5	10	3091	128.12
94	11350	"	13.5	12	3501	145.28
95	13042	"	15.5	14	4046	172.11

Sizes printed in black type are the standard sizes for the capacity mentioned.

*Sizes marked with a star preceding are the standard sizes used with our towers. See page 22.

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.

LIST PRICES OF ROUND TANKS

Cypress, White Pine, Yellow Pine, Fir and Poplar

List Prices are the same for all but discount is different.

Prices and weights are for 2-inch Tanks.

See Description on Pages 2 and 3 and Key to Price List on Page 4.

Number	Gallons	Inside Diameter	Inside Depth	Number of Hoops	Shipping Weight, Lbs.	Price f. o. b. Louisville
		Ft. In.	Ft. In.			
96	7726	12.6	8.5	7	2672	\$110.48
97	8644	"	9.5	8	2865	118.31
98	*10481	"	11.5	10	3279	135.58
99	12317	"	13.5	12	3689	152.48
100	14153	"	15.5	14	4246	179.70
101	10080	13.6	9.5	8	3129	130.12
102	12220	"	11.5	10	3580	149.09

NOTE—Previous prices are all for 2-inch tanks, but the following sizes are priced in 2, 2½ and 3 inch. Tanks 14-0 and 16-0 feet diameter are usually built of 2 inch, and often 18-foot diameter tanks, but we advise 2½ inch for tanks over 16 feet diameter to 20 feet inclusive, and 3 inch for larger sizes

See Key to Price List on Page 4.

No.	Gallons	Bot- tom Dia.	In- side D'pth	No. Hoops	2 Inch		2½ Inch		3 Inch	
		Ft. In.	Ft. In.		Ship- ping Wgt., Lbs.	Price f. o. b. Louis- ville	Ship- ping Wgt., Lbs.	Price f. o. b. Louis- ville	Ship- ping Wgt., Lbs.	Price f. o. b. Louis- ville
103	8540	14.0	7.5	7	2765	\$113.68	3727	\$159.26	4393	\$185.90
104	9691	"	8.5	7	2819	124.63	4062	174.15	4784	203.05
105	10843	"	9.5	8	3265	135.03	4387	188.33	5165	219.47
106	13146	"	11.5	10	3796	158.12	5080	219.28	5968	254.83
107	*15449	"	13.5	12	4280	178.25	5726	247.17	6725	287.14
108	16600	"	15.5	14	4807	184.78	7074	278.49	8316	323.22
109	11631	14.6	9.5	8	3488	143.55	4694	200.77	5529	234.15
110	14102	"	11.5	10	4035	167.30	5407	232.53	6356	270.51
111	16573	"	13.5	12	4532	187.91	6069	261.11	7134	303.67
112	21761	15.6	15.5	14	5470	247.99	8077	317.64	9487	368.40
113	11155	16.0	7.5	7	3370	139.45	4514	193.94	5306	225.62
114	12659	"	8.5	7	3604	148.95	4839	207.22	5694	241.42
115	14163	"	9.5	8	3922	163.08	5248	224.78	6166	261.50
116	17171	"	11.5	10	4529	189.12	6037	260.02	7081	301.78
117	*20179	"	13.5	12	5080	211.06	6771	291.87	6941	238.61
118	23187	"	15.5	14	5678	236.88	7550	326.46	8846	378.30
119	26195	"	17.5	17	6288	266.64	9228	375.13	10825	434.69
120	29203	"	19.5	20	6966	297.79	10164	427.40	11954	496.55
121	15988	17.0	9.4	8	4273	176.24	5706	246.91	6699	287.06
122	19384	"	11.4	10	4865	200.88	6493	280.90	7618	326.36
123	22639	"	13.4	12	5457	225.52	7277	314.79	8539	365.74
124	*26035	"	15.4	14	6085	252.54	8100	351.20	9495	407.46
125	29431	"	17.4	17	6942	294.62	9149	405.71	10679	468.95
126	17924	18.0	9.4	8	4689	204.30	6256	281.52	7340	325.38
127	21730	"	11.4	10	5370	234.96	7145	322.33	8373	371.95
128	25378	"	13.4	12	6041	269.26	8023	366.66	9396	422.04
129	*29184	"	15.4	15	6750	299.44	8940	407.02	10457	468.16
130	32990	"	17.4	18	7408	328.58	9807	454.87	11467	523.50
131	36796	"	19.4	21	8203	379.02	11780	527.17	13787	604.92

Sizes printed in black type are the standard sizes for the capacity mentioned.

*Sizes marked with a star are the standard sizes used with our towers. See page 22.

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.

LIST PRICES OF ROUND TANKS

Cypress, White Pine, Yellow Pine, Fir and Poplar

List Prices are the same for all but discount is different.
See Description on Pages 2 and 3 and Key to Price List on Page 4.

No.	Gallons	Bot- tom Dia.	In- side D'pth	No. Hoops	2 Inch		2½ Inch		3 Inch	
		Ft. In.	Ft. In.		Ship- ping W'ght, Lbs.	Price f. o. b. Louis- ville	Ship- ping W'ght, Lbs.	Price f. o. b. Louis- ville	Ship- ping W'ght, Lbs.	Price f. o. b. Louis- ville
132	34252	19.6	15.4	15	7539	\$333.90	9941	\$455.50	11603	\$523.18
133	38726	"	17.4	18	8246	365.72	10869	506.60	12684	582.24
134	*43200	"	19.4	21	9100	395.30	12894	566.50	13862	650.50
135	22130	20.0	9.4	8	5352	229.74	7136	321.10	8377	371.80
136	26830	"	11.4	10	6160	269.40	8475	371.10	9570	328.10
137	31334	"	13.4	13	6885	300.28	9127	413.92	10684	477.22
138	36035	"	15.4	16	7734	341.40	10204	466.39	12026	535.99
139	40725	"	17.4	19	8459	372.04	11156	518.67	13024	596.45
140	45435	"	19.4	22	9281	410.76	12206	580.19	14231	666.59

The following prices are for 3-inch Tanks.

See Key to Price List on Page 4.

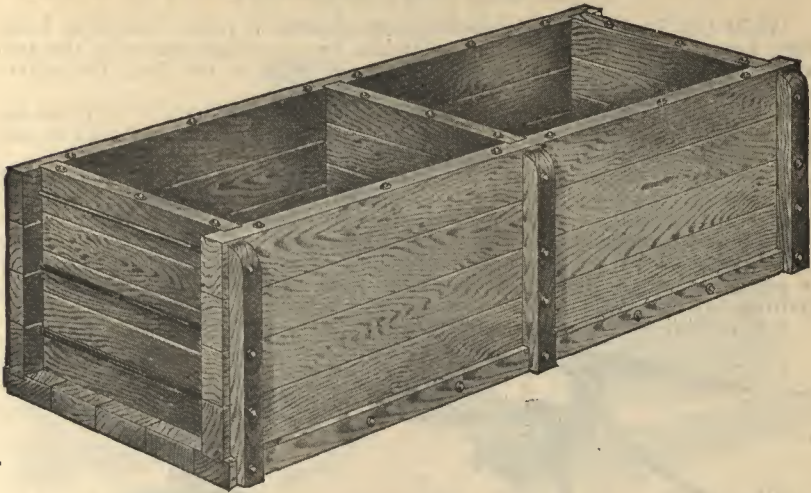
Number	Gallons	Inside Diameter	Inside Depth	Number of Hoops	Shipping Weight, Lbs.	Price f. o. b. Louisville
		Ft. In.	Ft. In.			
141	26777	22.0	9.4	9	10579	\$433.88
142	32464	"	11.4	11	11956	472.26
143	37914	"	13.4	14	13329	526.04
144	43601	"	15.4	17	14878	590.02
145	*49289	"	17.4	20	16773	686.00
146	54976	"	19.4	24	18628	782.69
147	60663	"	21.4	27	20120	861.24
148	45121	24.0	13.4	16	15002	598.23
149	51889	"	15.4	18	16776	672.55
150	58657	"	17.4	21	18582	762.10
151	*65426	"	19.4	25	20590	866.13
152	72194	"	21.4	29	22207	951.10
153	*78962	"	23.4	33	23926	1044.37
154	92761	26.0	23.4	34	27031	1205.92
155	70627	28.0	15.4	20	21997	930.13
156	79840	"	17.4	23	24130	1038.26
157	89052	"	19.4	27	26212	1146.46
158	98264	"	21.4	31	28133	1246.98
159	*107476	"	23.4	35	30149	1357.72
160	81077	30.0	15.4	20	23916	1016.23
161	91653	"	17.4	24	26137	1082.04
162	102228	"	19.4	28	28408	1244.66
163	112803	"	21.4	32	30555	1358.44
164	123379	"	23.4	37	32670	1475.42

Sizes printed in black type are the standard sizes for the capacity mentioned.

*Sizes marked with a star preceding are the standard sizes used with our towers. See page 22.

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.

RECTANGULAR WOODEN TANKS



In the construction of Rectangular Tanks, a greater amount of mechanical knowledge and experience is necessary than in Round Tanks and there is no standard practice that is readily accessible to the uninformed, as with Round Tanks, so that besides ourselves, there are practically only one or two other concerns that attempt to build this kind of a tank.

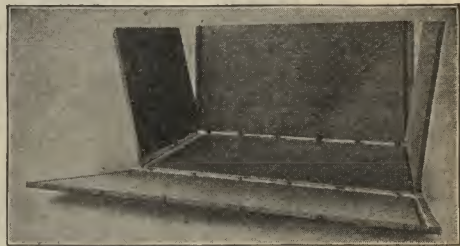
The principal problem in Rectangular Tanks is of course to provide sufficient stability to the sides and ends to overcome the pressure outwards. This is solved in the Caldwell construction in the only right way, viz., the scientific way: this varying pressure is accurately calculated and then rods are provided of the proper number and size that, when properly spaced, will withstand such a pressure with the necessary margin of safety. As a consequence, there can be no bulging of sides or ends with joints opening up and the contents running out, even if the tank doesn't go to pieces when filled, as often happens when such tanks are not properly rodded.

In the larger sizes it is necessary to use cross rods through the middle or over the top, unless these would be objectionable, in which event we can furnish a side bracing of timbers properly framed ready for use.

We build these tanks in any size wanted, and with or without partitions, false bottoms, etc.

Instead of iron rods, we can supply brass or galvanized or lead covered rods. In dye vats we countersink the heads of the rods and use a hardwood strip—generally of Maple—for a cap over the heads.

In shipping Rectangular Tanks the sides, ends and bottoms are each put together and shipped in one section. All holes for rods are bored and rods put in place, with blocks on the ends of the thickness of the part they have to pass through. Customer in receiving Tank has only to take off blocks and nuts and let the sides and ends down into the frame in the bottom and put the rods back in place, first placing the battens in position and then drawing the rods up.



TANNERS' TANKS

While the Tanning Trade uses a great variety of tanks, including Lime Vats, Leach Tubs, Paddle Wheels, Drums, etc., we illustrate only the two latter types, as they represent what is special work in this line, the others being plain round or rectangular tanks.

Tanners were among the first to discover the superiority of Cypress for tank work, and we can refer to many that have had Cypress tanks in use for fifteen to twenty years, which are still in good condition.

The Drum illustrated does not represent the only type we build, but the one principally used. We can furnish any other style wanted, and we construct these with or without doors, shelves and pins. As we have extensive foundry and machine-shop facilities, we are well prepared to supply anything in the way of gudgeons or bearings, and also gearing or sprockets or pulley to drive them, together with the necessary belting, link-belt, shafting, etc.

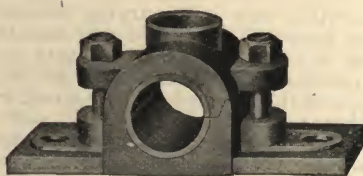
Ask for prices and references.



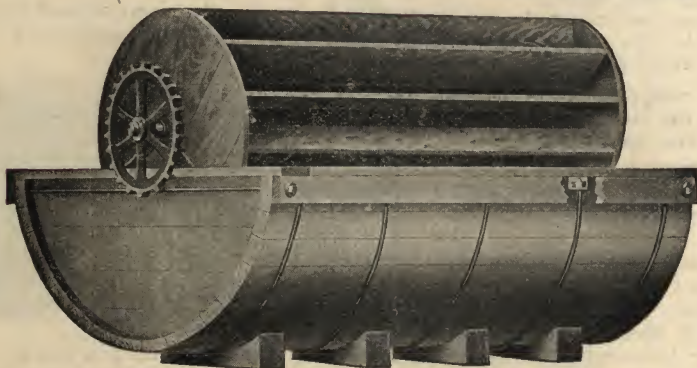
Drum with Drive



Plate Gudgeons



**Pillow Block
or Babbitted Bearing**

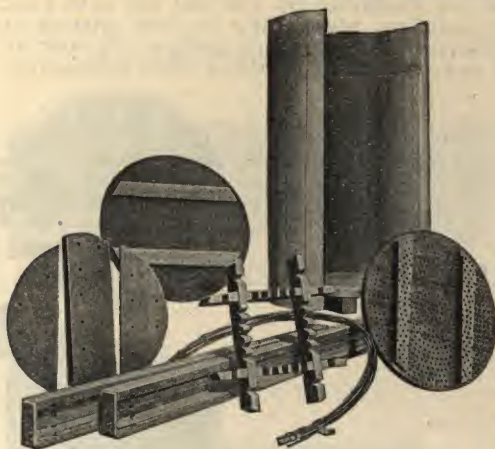


Round End Vat with Paddle Wheel

"THE TANK
WITH A
REPUTATION"

VINEGAR TANKS

VINEGAR GENERATORS



Vinegar Generator Parts



Vinegar Generator Assembled

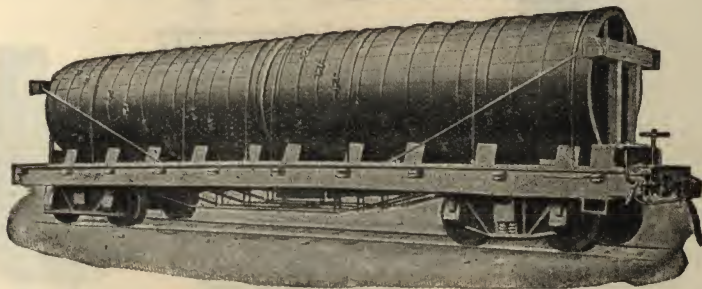
Vinegar and Cider, like Alcohol, are more difficult to hold than water, and it is much more difficult to make a tank for such liquids. Moreover, it is necessary to use a wood that will not contaminate the liquid, which is one of the strong points of Cypress. Fir is also used for Cider and Vinegar Tanks, but it is not as durable as Cypress.

In getting out tanks of this kind, we use every precaution to insure a thoroughly satisfactory job, both in the selection of the material and in the workmanship. As an example of the latter, we go over every joint by hand, after it comes from the jointing machine, to make certain that the joint is as perfect as it can be made.

Space does not permit of describing the thoroughness with which every little detail is handled in the construction of Generators and Car Tanks, but we shall be glad to furnish specifications for such work to anyone interested.

Prices for any size wanted will be quoted on application. Also state the quantity.

VINEGAR CAR TANKS



These Tanks are furnished both Rectangular and Round, and the Round Tanks, both to set upright and to lie horizontal. Extra pains are taken in the manufacture of such tanks, and they are heavily hooped and very strongly braced, so they will stand the shock due to the jolting they get.



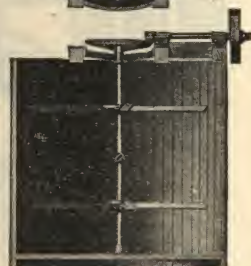
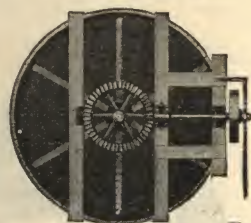
OTHER KINDS OF TANKS

A few other kinds of tanks are illustrated on this and the next page, besides those shown on the preceding pages. We do not attempt to supply a description or price list, as space does not permit. Prompt attention, however, will be given any request for prices or other information.

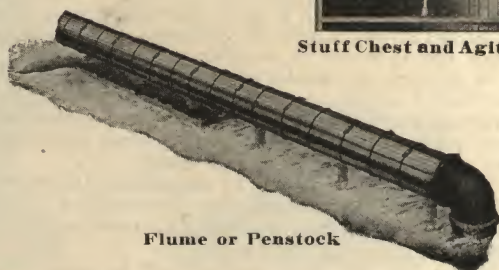


**Heavy Yellow Pine
Acid Tank**

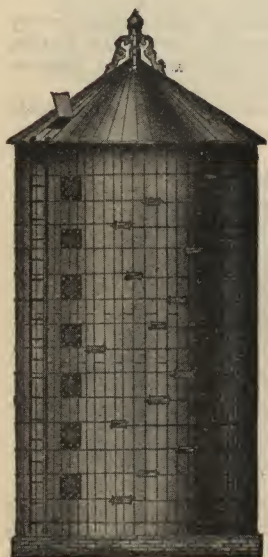
PAPER MILL TANKS



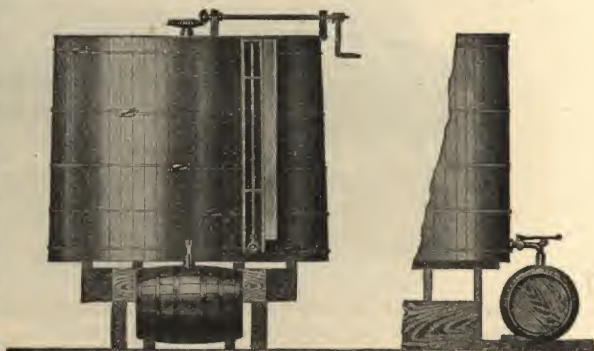
Stuff Chest and Agitator



Flume or Penstock



Silo



Whiskey Tank

"THE TANK
WITH A
REPUTATION"

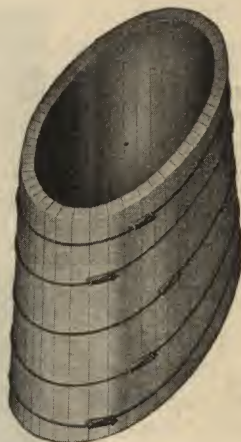
OTHER KINDS OF TANKS

HALF-ROUND TANKS

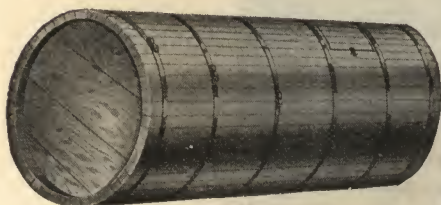


Furnished in any size wanted. State inside dimensions in asking for prices

ELLIPTICAL TANK



ROUND WAGON TANKS



In asking for prices, be careful to give the outside diameter and length that can be used

Furnished in any size. State inside dimensions in asking for prices. Note the short diameter should always be at least a little bit more than half the long diameter or the sides will be too flat for the hoops to hold the tank together

SPRAYING TANKS



Furnished in any size, and with or without Agitator. State inside dimensions when asking for prices

SINK



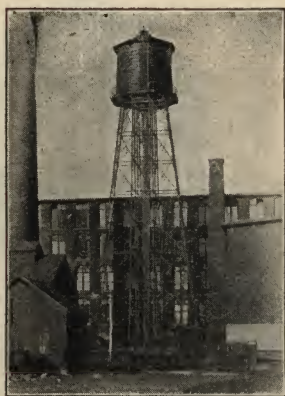
Furnished in any size. State inside dimensions and length of legs in asking for prices



ELEVATED GRAVITY TANKS FOR AUTOMATIC SPRINKLERS.



Davol Rubber Co., Providence, R. I.
30,000 Gallon Cypress Tank.
75 ft. Tubular Column Steel Tower.



American Thread Co., Westerly, R. I.
50,000 Gallon Cypress Tank.
100 ft. Tubular Column Steel Tower.



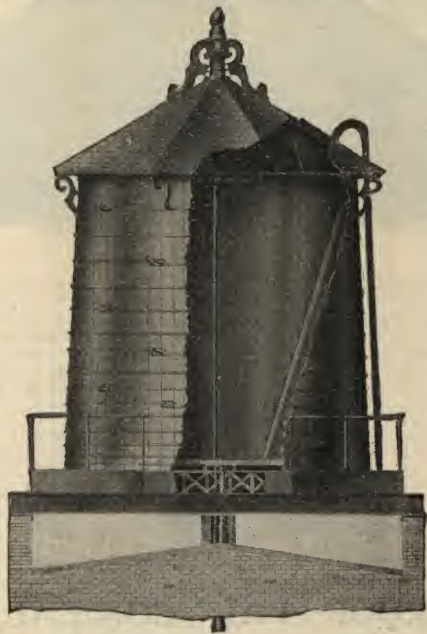
New Orleans Furniture Mfg. Co.,
New Orleans, La.
20,000 Gallon Cypress Tank.
63 ft. Angle Column Steel Tower.



GRAVITY TANKS TO SUIT INSURANCE REQUIREMENTS

These prices are for tanks built to suit the requirements of either the Factory Mutual Insurance Companies or any of the Stock Companies. Such tanks are required to be built of a certain size for a given capacity and to be provided with round iron (not steel) hoops of a specified number and size. They must be constructed of 2½ inch material if of 20,000 gallons or less, and of 3 inch for larger sizes.

If furnished complete, the tanks must be provided with a Conical Roof, covered with Shingles, Rubberoid or Metal, and an Inside Flat Cover for frost proofing, together with an Indicator or Tank Register, an Inside Wooden Ladder, an Outside Iron Ladder extending three feet above tank with ends curved over, and sub-joists or bed pieces for the support of the bottom of tank.



Prices are given for the tanks alone and will be quoted on application for the tanks complete with the other accessories mentioned.

Gallons.	Inside Diameter	Inside Depth.	No. Round Hoops.	Shipping Weight.	Prices Complete, Tank Only.	Same Tank with Plain Conical Cover, Cypress Shingles, Flat Cover, Ladders, Indicator and Dunnage.		Price Complete.
	Ft. In.	Ft. In.		Lbs.		Gallons.	Lbs.	
5,000	10.0	11.4	10	3,873	\$176.66	5,000	5,639	Furnished on application
7,500	11.6	11.4	11	4,635	211.10	7,500	7,043	
10,000	12.6	13.4	14	5,966	272.42	10,000	8,799	
12,000	13.6	13.4	14	6,449	294.26	12,000	9,598	
15,000	14.0	15.4	15	7,593	346.32	15,000	10,282	
20,000	16.0	15.4	16	8,974	408.56	20,000	12,459	
25,000	16.0	17.4	20	11,789	579.54	25,000	16,357	
30,000	18.0	17.4	20	13,584	655.42	30,000	18,413	
40,000	19.6	19.4	22	17,144	864.38	40,000	22,483	
50,000	22.0	19.4	23	19,932	1013.26	50,000	26,729	
60,000	24.0	19.4	23	22,914	1177.58	60,000	31,322	
75,000	24.0	23.4	31	27,791	1510.72	75,000	37,090	
100,000	28.0	23.4	34	34,634	1903.76	100,000	49,727	



TANK ROOFS

PLAIN CONICAL COVERS WITH BATTENS OVER JOINTS



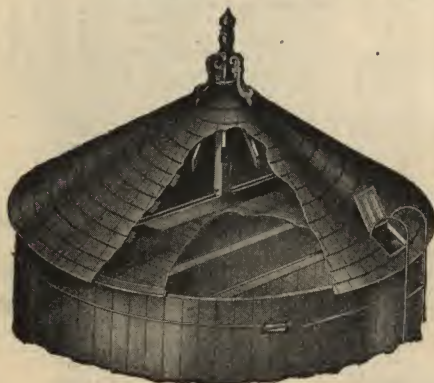
Price List

Cover for Tank	Battened		Shingled	
	Weight	Price	Weight	Price
6 ft. 6 in. diameter.....	200 lbs.	\$9 19	380 lbs.	\$14 44
8 " 0 " ".....	300 "	14 53	540 "	21 53
10 " 0 " ".....	450 "	19 67	750 "	28 42
12 " 6 " ".....	775 "	27 09	1,175 "	38 80
14 " 0 " ".....	1,050 "	33 58	1,500 "	46 71
16 " 0 " ".....	1,150 "	42 23	1,810 "	61 48
18 " 0 " ".....	1,500 "	50 73	2,300 "	73 92
19 " 6 " ".....	1,800 "	61 34	2,625 "	85 40
22 " 0 " ".....	2,000 "	75 69	3,200 "	110 69
24 " 0 " ".....	2,300 "	94 97	4,040 "	145 72
26 " 0 " ".....	2,800 "	115 50	5,050 "	181 14
28 " 0 " ".....	3,500 "	141 17	6,350 "	224 30
30 " 0 " ".....	4,500 "	179 67	8,100 "	284 67

FROST-PROOF PLAIN CONICAL COVERS

WITH SHINGLES AND INSIDE FLAT COVER AND JOIST

Price List



Cover for Tank diam.	Without Shingles		With Shingles	
	Weight	Price	Weight	Price
6 ft. 6 in.	318 lbs.	\$12 88	498 lbs.	\$18 13
8 " 0 "	455 "	19 34	695 "	26 34
10 " 0 "	699 "	29 26	999 "	38 01
12 " 6 "	1,214 "	40 65	1,614 "	52 45
14 " 0 "	1,590 "	50 87	2,040 "	64 00
16 " 0 "	1,843 "	63 79	2,503 "	83 04
18 " 0 "	2,355 "	77 33	3,155 "	100 52
19 " 6 "	2,822 "	93 12	3,647 "	117 18
22 " 0 "	3,470 "	116 85	4,670 "	151 85
24 " 0 "	4,030 "	143 41	5,770 "	194 16
26 " 0 "	4,673 "	167 93	6,923 "	233 57
28 " 0 "	5,685 "	202 35	8,535 "	285 48
30 " 0 "	7,175 "	254 51	10,775 "	359 57

THE TANK
WITH A
REPUTATION

FANCY CONICAL COVERS

WITH BATTENS
OVER JOINTS



Price List

Cover for Tank		Battened		Shingled	
		Weight	Price	Weight	Price
6 ft. 6 in. diameter		390 lbs.	\$15 87	630 lbs.	\$22 87
8 " 0 " "		500 "	21 54	800 "	30 29
10 " 0 " "		700 "	29 84	1,075 "	40 79
12 " 6 " "		1,050 "	40 13	1,575 "	55 44
14 " 0 " "		1,400 "	48 35	2,000 "	65 85
16 " 0 " "		1,600 "	60 99	2,425 "	85 05
18 " 0 " "		2,000 "	73 41	3,000 "	101 85
19 " 6 " "		2,400 "	88 57	3,525 "	121 38
22 " 0 " "		2,800 "	105 56	4,300 "	149 31
24 " 0 " "		3,300 "	128 33	5,400 "	189 58
26 " 0 " "		4,000 "	154 00	6,700 "	232 75
28 " 0 " "		5,000 "	192 50	8,500 "	297 50
30 " 0 " "		6,000 "	243 83	11,000 "	388 22

Frost-Proof Fancy Conical Covers

With Shingles and Inside Flat Cover and Joist



Price List

Cover for Tank diameter	Without Shingles		With Shingles	
	Weight	Price	Weight	Price
6 ft. 6 in.	508 lbs.	\$19 55	748 lbs.	\$26 55
8 " 0 "	655 "	26 34	955 "	35 09
10 " 0 "	949 "	39 43	1,324 "	50 38
12 " 6 "	1,489 "	53 78	2,014 "	69 09
14 " 0 "	1,940 "	65 64	2,540 "	83 14
16 " 0 "	2,293 "	82 55	3,118 "	106 61
18 " 0 "	2,856 "	100 01	3,855 "	128 45
19 " 6 "	3,422 "	120 35	4,847 "	153 16
22 " 0 "	4,270 "	146 75	5,770 "	190 47
24 " 0 "	5,030 "	176 77	7,130 "	238 02
26 " 0 "	5,873 "	206 43	8,573 "	286 18
28 " 0 "	7,185 "	253 68	10,785 "	353 68
30 " 0 "	8,675 "	318 73	13,675 "	463 12

"THE TANK
WITH A
REPUTATION"

TANK FOUNDATIONS

Many wooden tanks leak because of inadequate or improperly designed foundations. These two cardinal principles must be observed:—

1st.—The weight must be supported from the bottom.

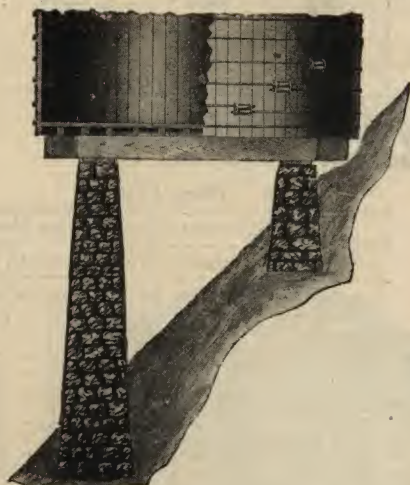
2nd.—The foundations must extend below the frost line, in cold climates.

Where desired, we will furnish a plan in detail showing the construction necessary for foundations—both for the piers or walls and the timbers or I-Beams.

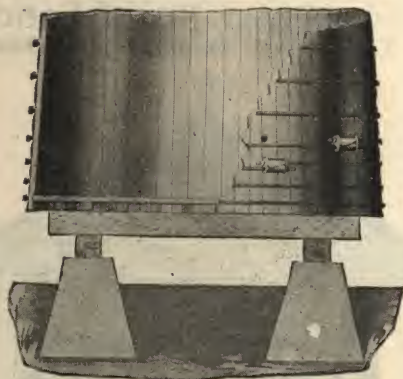
We also supply these timbers or I-Beams with the tank, in many cases.



Tanks on the ground

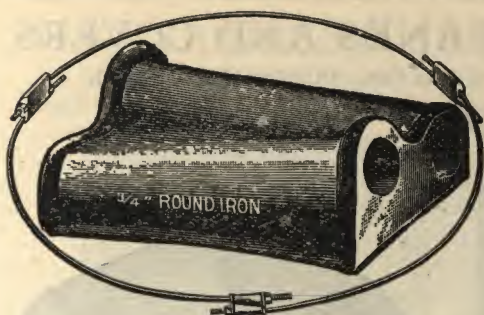


Showing Tank with Foundation on the side of hill



Showing Tank with Foundation on level ground

"THE TANK
WITH A
REPUTATION"

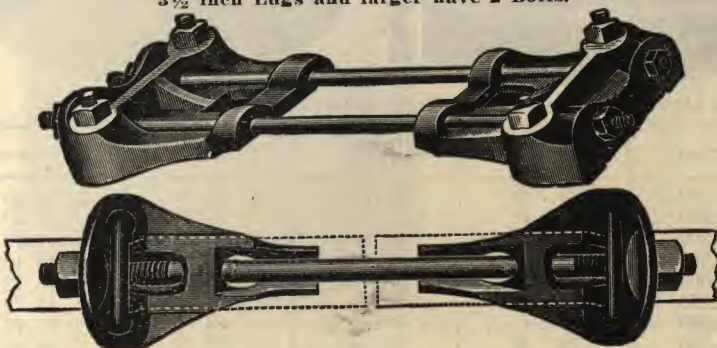


HOOP LUGS OR FASTENERS.

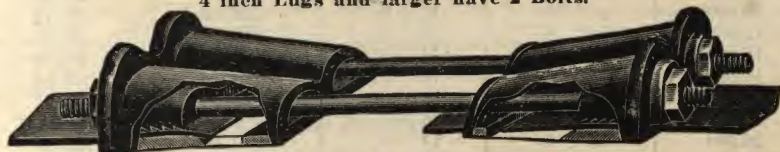
MALLEABLE IRON ROUND LUGS.

$\frac{1}{2}$ inch	each,	\$0.30
$\frac{5}{8}$ inch	.....	.40
$\frac{3}{4}$ inch	.....	.50
$\frac{7}{8}$ inch	.....	.60
1 inch	.....	.80
$1\frac{1}{8}$ inch	.....	1.00

CALDWELL PATENT FLAT HOOP LUG—Two Views.
3½ inch Lugs and larger have 2 Bolts.



TECKTONIUS FLAT HOOP FRICTION LUG.
4 inch Lugs and larger have 2 Bolts.



CALDWELL RIVETED LUG.
All sizes have 2 Bolts.



Price List of the Tecktonius and Caldwell Patent and Riveted Lugs.

	Per pair.		Per pair.
1½ inch Patent Lugs.....	\$0.40	3½ inch Patent Lugs.....	\$1.50
2 " " " ".....	.60	4 " " " ".....	2.00
2½ " " " ".....	.80	5 " " " ".....	3.00
3 " " " ".....	1.00	6 " " " ".....	3.50



HEAVY STEEL TANKS AND COVERS

FOR STORAGE OF WATER, OIL, TURPENTINE, ETC.



We also build these Tanks in Rectangular, Elliptical and other shapes.

Gallons	Diameter Ft. In.	Height Ft. In.	Price Tank	Price Cover
500	5 . 0	4 . 0	\$ 29.40	\$ 10.50
1,000	6 . 0	5 . 0	42.00	11.10
1,200	6 . 0	6 . 0	48.85	11.10
1,500	6 . 6	6 . 6	56.20	11.40
2,000	7 . 0	7 . 0	65.40	15.12
2,200	8 . 0	6 . 0	71.40	15.72
3,000	8 . 0	8 . 0	84.55	15.72
4,500	10 . 0	8 . 0	109.75	22.26
6,000	10 . 0	10 . 0	127.60	22.26
7,000	10 . 0	12 . 0	149.00	22.26
10,000	12 . 0	12 . 0	223.15	36.72
12,000	12 . 0	14 . 0	245.20	36.72
15,000	14 . 0	14 . 0	296.65	48.54
17,000	14 . 0	16 . 0	328.15	48.54
20,000	16 . 0	14 . 0	349.65	92.52
23,000	16 . 0	16 . 0	384.30	92.52
26,000	18 . 0	14 . 0	520.80	112.26
30,000	18 . 0	16 . 0	573.85	112.26
34,000	18 . 0	18 . 0	707.20	112.26
40,000	20 . 0	18 . 0	822.15	207.90
45,000	20 . 0	20 . 0	871.50	207.90
50,000	22 . 0	18 . 0	936.10	254.10
55,000	22 . 0	20 . 0	992.60	254.10
60,000	24 . 0	18 . 0	1,053.15	347.82
65,000	24 . 0	20 . 0	1,146.60	347.82
80,000	24 . 0	24 . 0	1,321.95	347.82
100,000	26 . 0	26 . 0	1,530.90	403.92

The smaller sizes of tanks are built of $\frac{1}{8}$ -inch steel; the intermediate sizes of $\frac{1}{4}$ -inch and $\frac{3}{8}$ -inch, and the larger sizes of $\frac{1}{4}$ -inch and $\frac{3}{8}$ -inch for some and of $\frac{1}{4}$ -inch throughout for the balance.

We supply these Steel Tanks thoroughly knocked down, well finished and punched for rivets, with rivets to put them together. All pieces are plainly marked, and we furnish blue prints showing how tanks go together.

WRITE FOR DISCOUNTS, or let us quote Net Prices, including freight to your city.

We can figure on erecting these tanks, where desired.

We build these tanks in any other size and thickness wanted.



GALVANIZED STEEL TANKS

RELIABLE GALVANIZED ROUND STORAGE TANKS

Send for Special Galvanized Tank Catalogue listing all sizes and styles.



Diameter Feet	Height Feet	Capacity Gallons	Price
2	2	47	\$4.50
2 1/2	2 1/2	78	7.00
3	3	157	11.50
3 1/2	3 1/2	220	13.50
4	4	338	16.50
4 1/2	4 1/2	423	19.00
5	5	500	21.00
5 1/2	5 1/2	675	25.50
6	6	1000	30.00
6 1/2	6 1/2	1200	40.00
7	7	1500	44.80
7 1/2	7 1/2	1800	49.00
8	8	2000	54.30
8 1/2	8 1/2	2400	50.00
9	9	3000	72.00
10	10	4500	95.00
10 1/2	10 1/2	6000	110.00
12	12	10000	165.00
14	14	15000	195.00
16	14	20000	215.00
16	16	23000	245.00

These capacities are not meant to be absolutely exact, but reasonably close. Measurements all outside.

We can furnish these Tanks in any size wanted.

Prices do not include covers. When required they will be supplied at proportionate additional prices.

List prices of all Tanks are based on No. 20 Gauge. For Tanks 6 feet diameter, 6 feet high, to 8 ft. diameter, 8 feet high, inclusive, we recommend No. 18 Gauge; for Tanks 10 feet diameter, 8 feet high, and 10 feet diameter, 10 feet high, No. 16 Gauge; for Tanks 12 feet diameter, 10 feet high, and 12 feet diameter, 12 feet high, No. 14 Gauge. Larger Tanks No. 12 and No. 10 Gauge. No. 18 Gauge increases the price 30 per cent; No. 16, 60 per cent; No. 14, 90 per cent; No. 12, 140 per cent; No. 10, 200 per cent.

RELIABLE GALVANIZED STEEL RECTANGULAR TANKS



Round End Price List

Width Feet	Height Feet	Length Feet	Capacity Gallons	Price
2	2	4	91	\$ 9.00
2	2	6	144	11.50
2	2	8	197	14.25
2 1/2	2 1/2	8	245	16.00
3	3	8	295	17.00
4	4	8	385	18.50
4	4	10	384	19.50
4	4	10	496	23.00
4	2	16	826	37.50

Square End Price List

Width Feet	Height Feet	Length Feet	Capacity Gallons	Price
2	2	4	101	\$ 9.50
2	2	6	152	11.75
2	2	8	202	16.00
2 1/2	2 1/2	8	262	17.50
3	3	8	318	18.75
4	4	8	424	23.00
3	2	10	397	22.00
4	2	10	530	25.00
4	2	16	945	41.00

We can furnish these Tanks in any size wanted.
We also build Steel Tanks of all sizes and kinds.

STANDARD TOWERS

We illustrate on the following pages three distinct types of Steel Towers—our Tubular Column, Angle Column and Latticed Column, also our All Wood Tower.

Each Tower is plainly illustrated and described so that its construction can easily be understood. All of them are of thoroughly reliable design and the difference between them is largely one of personal preference.

These Towers are all designed for tanks of certain sizes, which are herewith given.

In asking for prices, state the kind of tank (wood or steel). Capacity in gallons, the Kind of Tower and the Height and what Insurance Requirements are to be complied with, if any; also whether we shall include the Riser Piping and Frost Boxing for Riser Pipes and Erection in our estimate.

CORRECT TANK SIZES FOR TOWERS

STANDARD TOWERS	TANKS TO USE				
	Capacity	Wood See Pages 2 to 8 and 15 Diam. Deep No.			Galv. Steel See Page 21 Plain Steel See Page 20 Diam. High.
For Class "O" Tubular Column } or Class "CC" Angle Column... }	1000	6.0	5.5	25	6.0 5.0
	1500	6.6	6.5	32	6.6 6.6
For Class "A" Tubular Column } or Class "DD" Angle Column... }	2000	7.6	6.5	43	7.0 7.0
	2800	8.0	7.5	54	
For Class "A" Tubular Column } or Class "FF" Angle Column... }	3000	8.0	8.5	55	8.0 8.0
	5000	10.0	9.5	79	
For Class "B" Tubular Column } or Class "HH" Angle Column.... }	* 5000	10.0	11.4	F.M.	
	6000	10.0	11.5	80	10.0 10.0
	7000				10.0 12.0
For Class "C" Tubular Column } or Class "JJ" Angle Column.... }	10000	12.6	11.5	98	12.0 12.0
	*10000	12.6	13.4	F.M.	
	12000	12.6	13.5	99	12.0 14.0
For Class "D" Tubular Column } or Class "KK" Angle Column... } or Class "LD" Latticed Column }	15000	14.0	13.5	107	14.0 14.0
	*15000	14.0	15.4	F.M.	
	17000	14.0	15.5	108	14.0 16.0
For Class "E" Tubular Column } or Class "LE" Latticed Column.... }	20000	16.0	13.5	117	16.0 14.0
	*20000	16.0	15.4	F.M.	
	22000	16.0	15.5	118	
	23000				16.0 16.0
For Class "F" Tubular Column } or Class "LF" Latticed Column }	25000	17.0	15.4	124	18.0 14.0
	*25000	17.6	15.4	F.M.	
	30000	18.0	15.4	129	18.0 16.0
	30000	18.0	17.4	F.M.	
	33000	18.0	17.4	130	18.0 18.0
For Class "G" Tubular Column } or Class "LG" Latticed Column }	35000	19.6	17.4	133	
	40000	19.6	19.4	134	20.0 18.0
	*40000	19.6	19.4	F.M.	
	45000				20.0 20.0
For Class "LH" Latticed Column.	50000	22.0	17.4	145	22.0 18.0
	*50000	22.0	19.4	F.M.	
	55000	22.0	19.4	146	22.0 20.0

In larger sizes, Hemispherical Bottom Steel Tanks are used nearly altogether, on account of being more economical.

* Tank sizes marked with a star and followed by F.M. are the sizes to suit Insurance requirements. See page 15.



PATENTED SECTIONAL TUBULAR COLUMN STEEL TOWER

This Tower is built with 4 columns. It is constructed for Tanks from 1,000 to 40,000 gallons.

The columns of these Towers are cut off square at the ends and these faced in a lathe to insure a true bearing against the internal flange in the heavy socket castings that make the joint connections, this flange also being faced off. These sockets are made on the proper angle to suit the batter of the Tower, and have a boss that is tapped to receive the extra long threaded ends of the round steel rods that are used for sway bracing. These rods are provided with drop forged turnbuckles to secure proper tension.

The Tower is the simplest in design of any on the market, and the easiest to erect as the use of socket connections does away with all riveting and makes it unnecessary to use skilled labor in putting it up. Any ordinary mechanic can erect the structure with common labor.

Practically no scaffolding is required as the sections are short and each is just like the others, and one section can be used from which to erect the next. A ginpole with ropes and blocks and wrenches are all the tools required.

This tower has been on the market for 20 years and is in use in every state and territory in this country, and in Canada, Mexico, the West Indies, Central and South America as well. It is endorsed and recommended by leading Architects and Engineers everywhere.

On account of its round columns, this tower offers less resistance to the wind than any other, sheds water easier and holds paint better, and it is the most graceful and handsome tower on the market. The stability of these towers is attested by the fact that many have passed through the fiercest tropical storms, and even cyclones, without being budged a particle, and numerous letters to this effect are printed in our Testimonial Booklet which will be sent to any address on application.

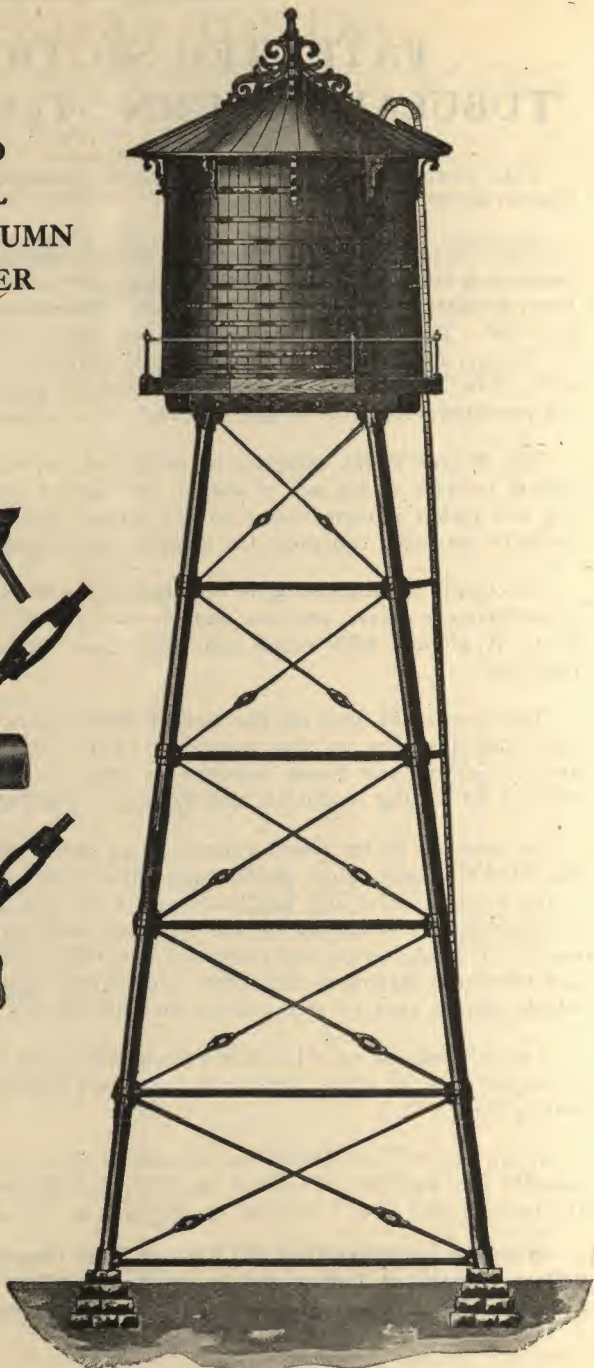
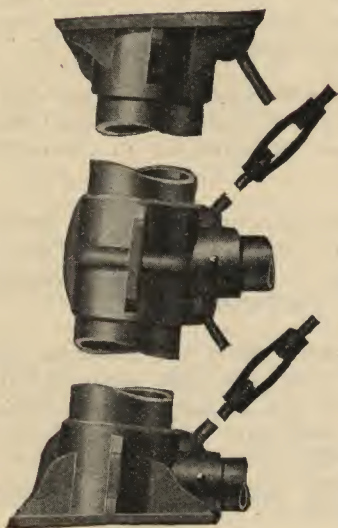
Let us send you our Handsome Embossed View Book with illustrations of about sixty of these structures furnished representative concerns and institutions.

When desired, we furnish the iron work alone for these Towers with a detailed plan and bill of material by which the customer may himself supply the timbers that form a support for the tank at top of Tower.

In asking for prices state the Kind of Tank (wood or steel), Capacity in gallons, Height of Tower, and if we are to include the Riser Piping and Frost Boxing for Riser Pipe and Erection in our Estimate.



**PATENTED
SECTIONAL
TUBULAR COLUMN
STEEL TOWER**



30,000 Gallon Cypress Tank.
63 Foot Tubular Column Steel Tower.
See Price List on Page 25.

PRICE LIST OF TUBULAR COLUMN STEEL TOWERS

See Correct Tank Sizes for them on Page 22.

CLASS O

For 1000 to 1500 Gallon Tanks.
See Sizes Page 22.

Height in Feet	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	1,592	\$59.16	\$15.00
20	2,044	83.80	
27	2,183	92.12	
39	2,822	127.12	
51	3,614	171.74	
63	4,438	216.22	
75	5,318	263.70	

Extra for I-Beam Foundation, \$20.00.

CLASS D

For 15,000 to 17,000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	6,330	\$196.82	\$40.00
20	6,986	230.66	
27	8,132	286.30	
39	10,030	380.38	
51	12,047	480.10	
63	14,185	585.54	
75	16,444	696.22	
87	18,826	812.86	
100	21,331	935.38	

Extra for I-Beam Foundation, \$100.00.

CLASS A

For 2000 to 3000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	2,428	81.12	20.00
20	3,047	114.24	
27	3,191	122.22	
39	4,006	165.68	
51	4,939	217.08	
63	5,893	267.96	
75	6,910	322.14	
87	8,244	391.06	

Extra for I-Beam Foundation, \$20.00.

CLASS E

For 20,000 to 23,000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	8,220	278.08	50.00
20	8,840	316.12	
27	10,419	402.72	
39	12,753	533.48	
51	15,236	671.46	
63	17,966	817.56	
75	20,648	969.08	
87	23,581	1128.94	
100	26,663	1296.10	

Extra for I-Beam Foundation, \$100.00.

CLASS B

For 5000 to 7000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	3,385	109.10	25.00
20	4,275	155.50	
27	4,450	164.64	
39	5,596	223.84	
51	6,888	292.52	
63	8,225	361.58	
75	9,650	435.02	
87	11,168	513.08	
100	12,597	584.78	

Extra for I-Beam Foundation, \$25.00.

CLASS F

For 25,000 to 33,000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	11,508	368.66	60.00
20	12,578	430.32	
27	14,086	513.10	
39	16,802	664.34	
51	19,667	822.92	
63	22,679	988.60	
75	25,844	1161.50	
87	29,162	1342.28	
100	32,636	1530.50	

Extra for I-Beam Foundation, \$166.00.

CLASS C

For 10,000 to 12,000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	5,014	156.56	32.50
20	5,924	203.80	
27	6,536	232.72	
39	8,171	313.80	
51	9,983	405.76	
63	11,863	499.12	
75	13,884	598.90	
87	16,016	703.76	
100	18,274	814.64	

Extra for I-Beam Foundation, \$60.00.

CLASS G

For 35,000 to 45,000 Gallon Tanks.
See Sizes Page 22.

Height in Feet.	Weight in Pounds.	Prices Complete.	Estimated Cost of Foundations in Ground.
15	14,715	538.36	75.00
20	15,379	578.70	
27	17,908	715.96	
39	21,271	901.10	
51	24,818	1094.94	
63	27,547	1297.34	
75	32,461	1508.50	
87	36,566	1728.66	
100	40,851	1957.58	

Extra with I-Beam Joists, \$110.00.

The Foundations in ground may be of concrete, brick or stone. We supply plans and specifications for building them.

The heights above given are standard, and are from the ground or grade line to the bottom of the tank.

The prices of Towers include Timber Foundation at top of Tower for Tank with extension for Octagonal Walk-Way with Iron Hand-Rail and with Iron Ladder, as shown in cut on opposite page, except Class G which has I-Beam caps or girders. Note extra price for I-Beam Foundation.

These Towers take a very low rate of freight. Write for delivered prices.

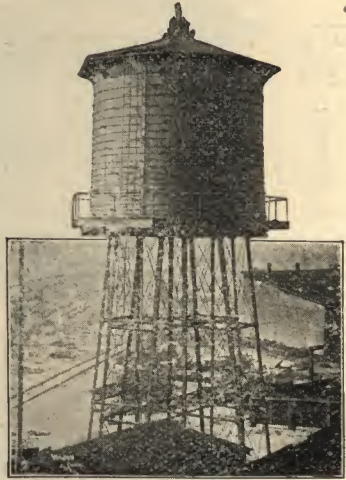


TWO TRACTION WATER SUPPLY OUTFITS.



The Jersey Central Traction Co.,
Keyport, N. J.

30,000 Gallon Cypress Tank.
51 ft. Tubular Column Steel Tower.



Savannah Union Station,
Savannah, Ga.

60,000 Gallon Cypress Tank and 39
Foot Angle Column Steel Tower.

WATER SUPPLY SYSTEMS.

For a Hotel.

For a Sanitarium.



Hotel Rider, Cambridge Springs, Pa.

15,000 Gallon Cypress Tank.
75 ft. Tubular Column Steel Tower.



Utica State Hospital, Utica, N. Y.

15,000 Gallon Cypress Tank.
100 ft. Angle Column Steel Tower.



FLAT BOTTOM STEEL TANKS AND TUBULAR COLUMN STEEL TOWERS.
COLLEGE WATER SUPPLY OUTFIT.

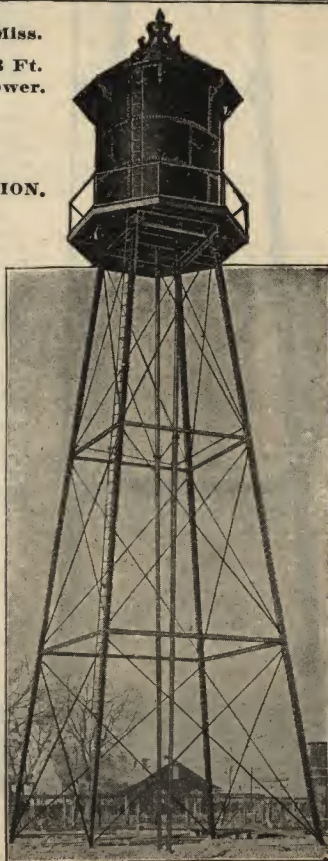


Aleorn College, Jackson, Miss.
20,000 Gallon Steel Tank and 63 Ft.
Tubular Column Steel Tower.

TWO OUTFITS FOR FIRE PROTECTION.

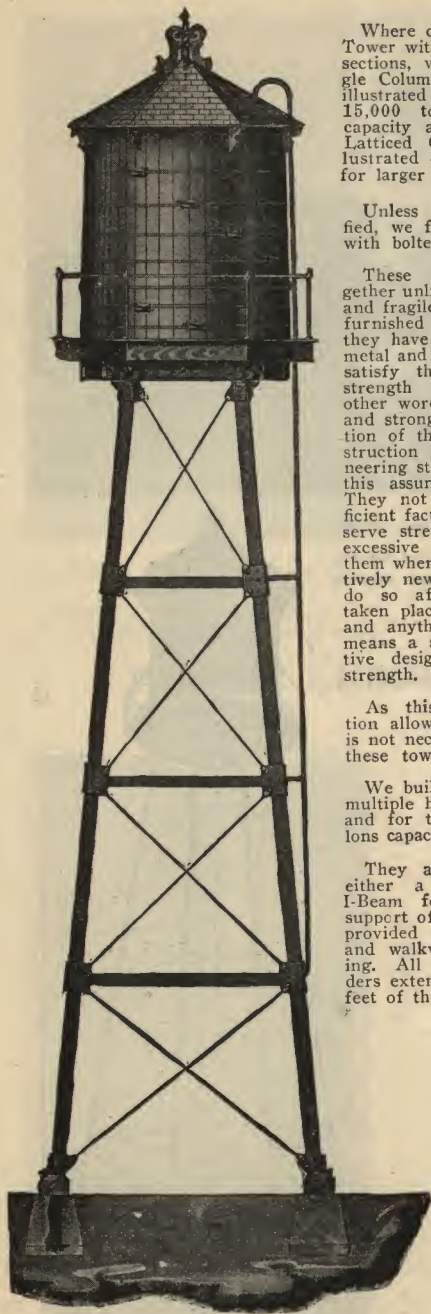


H. Waterbury & Sons,
Oriskany, N. Y.
30,000 Gallon Steel Tank.
75 Ft. Tubular Column Steel Tower.



Union Stave Co., New Orleans, La.
10,000 Gallon Steel Tank.
60 Ft. Latticed Column Steel Tower.

ANGLE COLUMN TOWERS



Where customers prefer a Tower with riveted or bolted sections, we supply the Angle Column Tower herewith illustrated for Tanks of 15,000 to 17,000 gallons capacity and less, and our Latticed Column Tower illustrated on pages 30 to 32, for larger sizes.

Unless otherwise specified, we furnish the Towers with bolted sections.

These Towers are altogether unlike the light, flimsy and fragile structures usually furnished under this name; they have enough weight of metal and bulk of material to satisfy the eye that their strength is adequate. In other words, they look heavy and strong, and an examination of the design and construction according to engineering standards, will make this assurance doubly sure. They not only have a sufficient factor of safety or reserve strength to meet any excessive demands upon them when they are comparatively new, but sufficient to do so after corrosion has taken place year after year, and anything less than this means a structure of defective design and inadequate strength.

As this heavy construction allows for corrosion, it is not necessary to galvanize these towers.

We build these Towers in multiple heights of ten feet, and for tanks of 1,000 gallons capacity and up.

They are furnished with either a timber or steel I-Beam foundation for the support of the tank. This is provided with an extension and walkway with handrailing. All Towers have ladders extending to within ten feet of the ground.



These Towers are acceptable to any and all Insurance Companies. In asking for prices state what Insurance Requirements, if any, the outfit must comply with; the kind of Tank (wood or steel), Capacity in gallons; Height of Tower and if we are to include Riser Piping and Frost Boxing for Riser Pipes and Erection in our estimate.



PRICE LIST OF ANGLE TOWERS

See Correct Tank Sizes For Towers on Page 22

CLASS CC

For 1,000 and 1,500 Gallon Tanks

See Sizes on Page 22

Height Feet	Shipping Weight Lbs.	Price Painted	Price Galvanized
12	1414	\$ 47.08	\$ 66.86
22	1819	67.24	101.18
32	2246	88.56	137.46
42	2704	111.34	176.26
52	3228	137.28	220.56

Prices include Timber Foundation at top of Tower to support tank; together with Walk Way, Hand Rail and Ladder.

Extra for I-Beam Foundation, \$20.00.

CLASS HH

For 5,000 and 6,000 Gallon Tanks

See Sizes on Page 22

Height Feet	Shipping Weight Lbs.	Price Painted	Price Galvanized
12	3053	\$ 90.98	\$123.70
22	3710	123.98	179.70
32	4346	160.40	238.38
42	5238	198.72	307.92
52	6083	240.18	378.96
62	7163	291.68	468.26

Prices include Timber Foundation at top of Tower to support tank; together with Walk Way, Hand Rail and Ladder.

Extra for I-Beam Foundation, \$25.00.

CLASS DD

For 2,000 Gallon Tanks

See Sizes on Page 22

Height Feet	Shipping Weight Lbs.	Price Painted	Price Galvanized
12	1712	\$ 56.86	\$ 81.18
22	2207	82.00	123.64
32	2755	107.14	167.98
42	3319	137.26	217.84
52	3847	166.26	265.30

Prices include Timber Foundation at top of Tower to support tank; together with Walk Way, Hand Rail and Ladder.

Extra for I-Beam Foundation, \$20.00.

CLASS JJ

For 10,000 and 12,000 Gallon Tanks

See Sizes on Page 22

Height Feet	Shipping Weight Lbs.	Price Painted	Price Galvanized
12	4449	\$134.12	\$177.60
22	5535	183.22	264.70
32	6585	234.92	353.16
42	7700	288.82	446.06
52	8922	347.76	547.78
62	10315	409.70	658.48
72	11555	488.24	760.42
82	13134	544.04	891.48

Prices include Timber Foundation at top of Tower to support tank; together with Walk Way, Hand Rail and Ladder.

Extra for I-Beam Foundation, \$60.00.

CLASS FF

For 3,000 Gallon Tanks

See Sizes on Page 22

Height Feet	Shipping Weight Lbs.	Price Painted	Price Galvanized
12	2272	\$ 70.60	\$118.04
22	2826	98.52	145.36
32	3457	129.74	198.66
42	4198	162.94	257.44
52	4897	199.96	319.28
62	5741	240.78	389.62

Prices include Timber Foundation at top of Tower to support tank; together with Walk Way, Hand Rail and Ladder.

Extra for I-Beam Foundation, \$20.00.

CLASS KK

For 15,000 and 17,000 Gallon Tanks

See Sizes on Page 22

Height Feet	Shipping Weight Lbs.	Price Painted	Price Galvanized
12	5652	\$162.12	\$216.20
22	6813	219.24	313.94
32	8032	267.30	413.68
42	9264	340.90	521.12
52	10798	406.90	641.10
62	12379	489.44	778.96
72	13155	552.36	897.04
82	15157	643.66	1,048.42

Prices include Timber Foundation at top of Tower to support tank; together with Walk Way, Hand Rail and Ladder.

Extra for I-Beam Foundation, \$100.00.

Heights are from ground or grade line to bottom of tank.

Prices include Tower complete with heavy Yellow Pine timbers for the Caps and Joists and Dunnage, and an extended platform for walkway around tank with an Iron Pipe Hand Rail and an Iron Ladder from about 10 feet above ground to the top of tank.

These Towers can be furnished with either bolted or riveted connections, as preferred, but are regularly furnished with bolted sections.

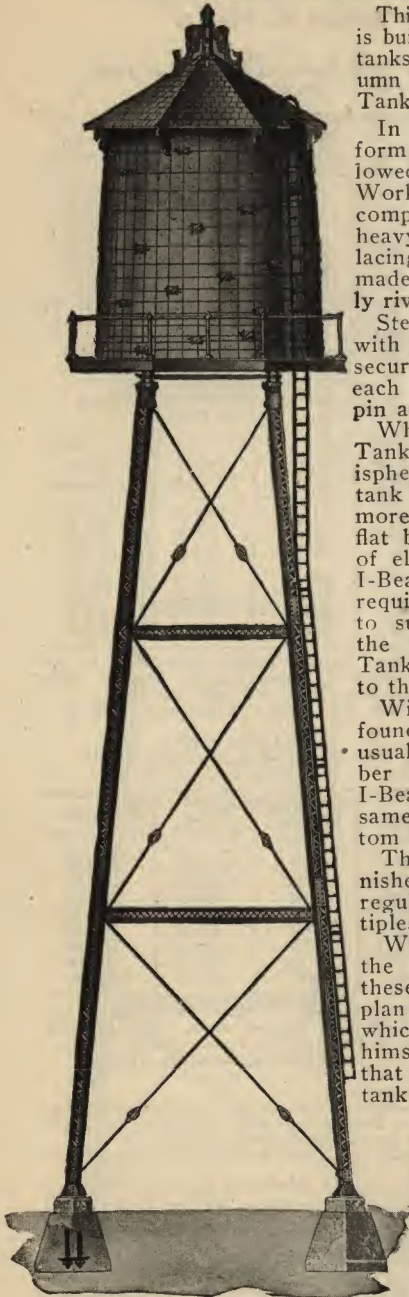
The sizes of tanks for the different towers are specified above and prices of these are given on pages 5 to 8 for Wood, p. 21 for Galvanized Steel, and p. 20 for Heavy Plain Steel.

This style of Tower can be furnished in larger sizes, but it is more expensive than our Latticed Column Tower illustrated on p. 30 for larger tanks.

These prices are subject to a discount that will be quoted on application, or we shall be glad to quote net delivered prices, and to include erection when desired.



LATTICED COLUMN TOWERS



30,000 Gallon Cypress Tank
80-foot Latticed Column Steel Tower

This is the heaviest Tower on the market and is built when a riveted structure is desired for tanks of larger sizes for which our Angle Column Tower is not economical. We furnish it for Tanks of 15,000 gallons and larger.

In this tower the same form of construction is followed as used in Steel Bridge Work. The columns are composed of two channels of heavy section with suitable lacing bars. The struts are made up of angles thoroughly riveted together.

Steel brace rods provided with proper turnbuckles are secured to gusset plates at each section with standard pin and clevis connections.

When used with Steel Tanks of large size, the hemispherical bottom type of tank is employed as this is more economical than the flat bottom type on account of elimination of the heavy I-Beam foundation that is required at the top of tower to support the tank. With the Hemispherical Bottom Tank the columns are riveted to the sides of the tank.

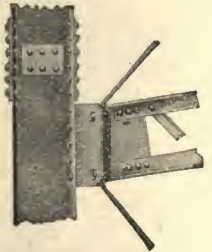
With Wooden Tanks the foundation at top of tower is usually of Yellow Pine Timber but may be of Steel I-Beam construction the same as used under flat bottom steel tanks.

The tower can be furnished in any height but it is regularly constructed in multiples of 10 feet.

When desired, we furnish the iron-work alone, for these towers with a detailed plan and bill of material by which the customer may himself supply the timbers that form a support for the tank at top of tower.

These Towers are acceptable to any and all Insurance Companies. In asking for prices state what Insurance Requirements, if any, the outfit must comply with; the Kind of Tank (wood or steel); Capacity in gallons; Height of Tower and if we are to include Riser Piping and Frost Boxing for Riser Pipes and Erection in our estimate.

See price list on next page.



PRICES OF LATTICED COLUMN STEEL TOWERS

See Correct Tank Sizes on Page 22.

See Prices of Wood Tanks on Pages 7 and 8 and Steel Tanks on Page 19.

CLASS L-D

For 15,000 to 17,000 Gallon Tanks.
See Sizes on Page 22.

*Height in Feet	Weight in Lbs.	Prices Com- plete	Estimated Cost of Foundations in Good Ground
20	7,080	\$245.34	\$40.00
25	7,610	278.48	
30	8,880	330.68	
40	10,240	419.14	
50	11,700	499.44	
60	12,890	619.88	
70	15,270	695.78	
80	18,400	825.72	
90	21,420	948.58	
100	23,290	1080.00	

Prices include Timber Foundation at top of Tower to support tank, together with Walk Way, Hand Rail and Ladder.
Extra for I-Beam Foundation, \$100.00.

CLASS L-G

For 35,000 to 45,000 Gallon Tanks.
See Sizes on Page 22.

*Height in Feet	Weight in Lbs.	Prices Com- plete	Estimated Cost of Foundations in Good Ground
20	15,460	\$544.20	\$75.00
25	16,290	584.04	
30	17,310	633.00	
40	20,290	776.04	
50	22,050	860.52	
60	24,200	963.72	
70	27,400	1068.30	
80	31,290	1243.36	
90	33,660	1350.00	
100	35,920	1451.70	

Prices of this Tower include I-Beam caps.
Extra with I-Beam Joists, \$110.00.

CLASS L-E

For 20,000 to 25,000 Gallon Tanks.
See Sizes on Page 22.

*Height in Feet	Weight in Lbs.	Prices Com- plete	Estimated Cost of Foundations in Good Ground
20	8,505	\$289.06	\$50.00
25	9,175	325.90	
30	10,305	374.40	
40	11,665	462.86	
50	13,975	565.24	
60	16,345	688.48	
70	18,025	775.84	
80	19,825	869.44	
90	22,845	992.30	
100	26,205	1160.30	

Prices include Timber Foundation at top of Tower to support tank, together with Walk Way, Hand Rail and Ladder.
Extra for I-Beam Foundation, \$100.00.

CLASS L-H

For 50,000 to 55,000 Gallon Tanks.
See Sizes on Page 22.

*Height in Feet	Weight in Lbs.	Prices Com- plete	Estimated Cost of Foundations in Good Ground
20	17,975	\$781.18	\$100.00
25	18,995	827.08	
30	19,935	869.38	
40	22,395	980.08	
50	25,295	1110.58	
60	30,475	1343.68	
70	33,385	1474.62	
80	35,875	1586.68	
90	40,525	1795.92	
100	44,545	1976.82	

Prices include I-Beam Foundation at top of Tower to support tank, together with Walk Way, Hand Rail and Ladder.

CLASS L-F

For 30,000 to 33,000 Gallon Tanks.
See Sizes on Page 22.

*Height in Feet	Weight in Lbs.	Prices Com- plete	Estimated Cost of Foundations in Good Ground
20	11,760	\$368.00	\$60.00
25	12,510	407.00	
30	13,300	449.08	
40	15,510	563.00	
50	17,770	662.18	
60	19,610	754.18	
70	22,650	906.18	
80	27,150	1094.08	
90	29,720	1217.44	
100	31,640	1309.60	

Prices include Timber Foundation at top of Tower to support tank, together with Walk Way Hand Rail and Ladder.
Extra for I-Beam Foundation, \$166.00.

*Heights are from ground or grade line to the bottom of tank.

Prices are given for standard outfits. We build this type of Tower in any other size or height wanted.

Prices include the Foundation at top of Tower with extension for octagonal Walk-Way with Iron Hand-Rail.

On all Towers a ladder is supplied from balcony to 10 feet above ground and from balcony to 3 feet above top of tank.

Class L-G Towers are regularly furnished with heavy Steel I-Beams for main girders, with Yellow Pine Joists above and the necessary Chime Joists or Dunnage Timbers of Yellow Pine under tank bottom.

Class L-H Towers are only furnished with I-Beam Foundation.

In all other sizes the Towers are regularly supplied with Yellow Pine Timber foundation throughout.

When desired we furnish foundations built of I-Beams, the extra price for which is given above.

Prices do not include Tank.

We supply plans and specifications for putting in the foundations and plans for the erection where customer puts job up.

We will quote for erecting any size outfit in any part of the country where desired.



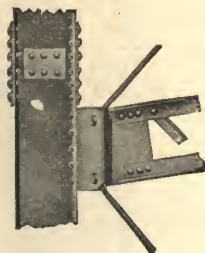
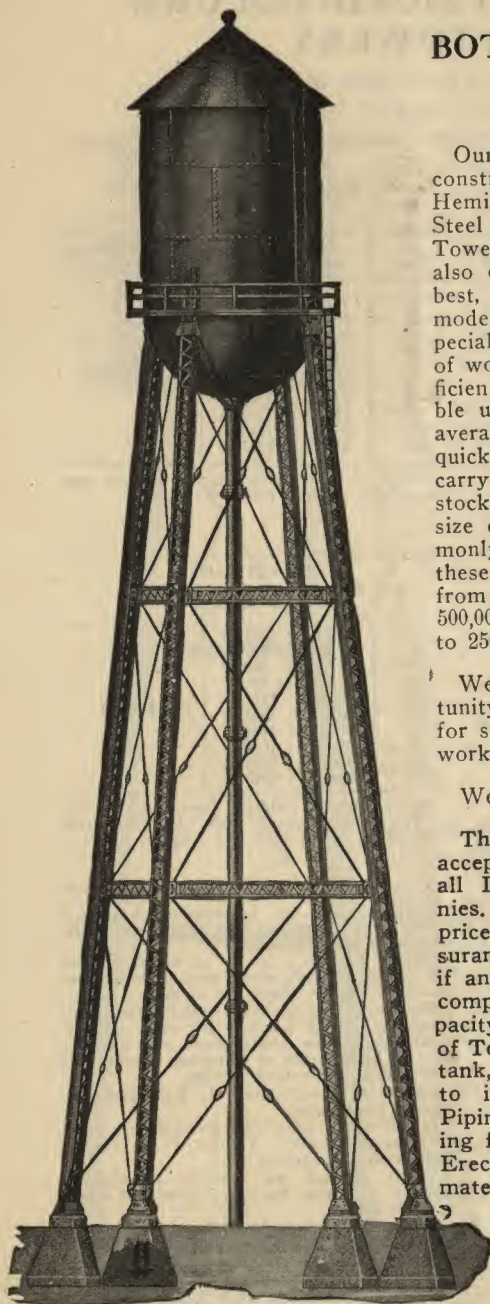
HEMISPHERICAL BOTTOM STEEL TANKS AND TOWERS

Our facilities for constructing Elevated Hemispherical Bottom Steel Tanks, or Water Towers, as they are also called, are of the best, as we have a modern plant built especially for this class of work, and with sufficient capacity to enable us to get out any average size outfit in quick time. We also carry the materials in stock for the standard size outfits most commonly used. We build these Tanks in sizes from 10,000 gallons to 500,000, with Towers up to 250 feet in height.

We solicit an opportunity to quote either for standard or special work in this line.

We erect anywhere.

These Towers are acceptable to any and all Insurance Companies. In asking for prices state what Insurance Requirements, if any, the outfit must comply with; the Capacity in gallons; Height of Tower to bottom of tank, and if we are to include the Riser Piping and Frost Boxing for Riser Pipe and Erection in our estimate.



ALL WOOD TOWERS

This Tower is a well-framed structure, with mortises and tenons, all built of dressed heart timber and with joints well made, all mortises and brace seats being so formed that no water can lodge in them. It is thoroughly tied together with heavy tie rods and cast-iron washers and heavy cast plates at top of columns, which provide for nearly a double bearing surface for the girders to rest on that carry the tank, the importance of which is readily apparent.

We will furnish this Tower complete, or the iron work only, as parties may desire.

Prices either way will be quoted on application.

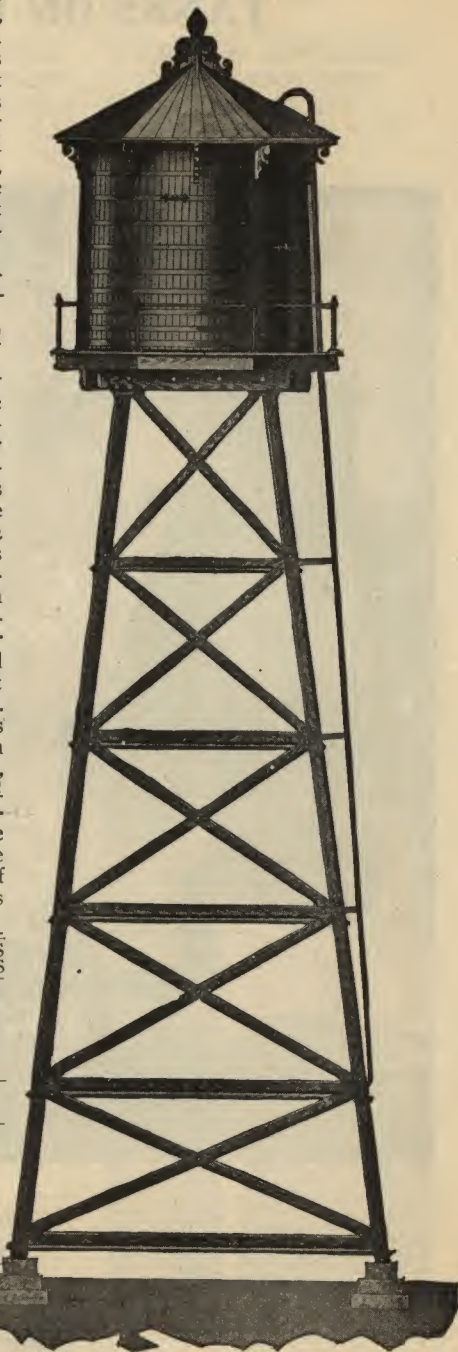
When parties desire to build their own towers we will furnish complete Plans, Specifications, and Bills of Material at a nominal price, and our ability as engineers and our long experience in building towers enable us to guarantee that the design of these towers is right, which will insure a saving equal to three or four times the cost of the plans and specifications in the outset, and no one can afford to risk leaving this all important factor to even an architect or engineer who has not given special attention to this particular line, let alone ordinary carpenters or builders.

These Towers are built for tanks of from 3000 to 30,000 gallons and in from one to six sections of 12 feet, but the heights given below include 1 foot for the projection of the capstone of the foundation piers above ground and 2 feet for the depth of the timbers that support tank at top of tower, so that a one section tower is 15 feet high, etc.

PRICES OF PLANS, SPECIFICATIONS AND BILLS OF MATERIAL FOR TOWERS

For 3000 Gal. Tank 8x8 ft. high.	For 5000 Gal. Tank 10x10 ft. high.	For 10,000 Gal. Tank 12-1/2x12 ft. high.	For 15,000 Gal. Tank 14x14 ft. high.	For 20,000 Gal. Tank 16x14 ft. high.	For 30,000 Gal. Tank 18x16 ft. high.
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Height of Tower	Price	Height of Tower	Price
15 ft.	\$6.75	15 ft.	\$12.50
27	8.75	27	15.00
39	11.00	39	17.50
51	13.50	51	22.50
63	16.50	63	28.00
75	20.00	75	35.50



TANKS ON BUILDINGS

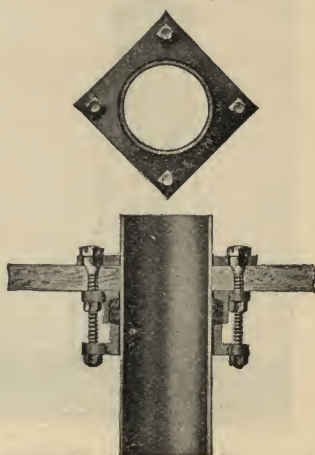
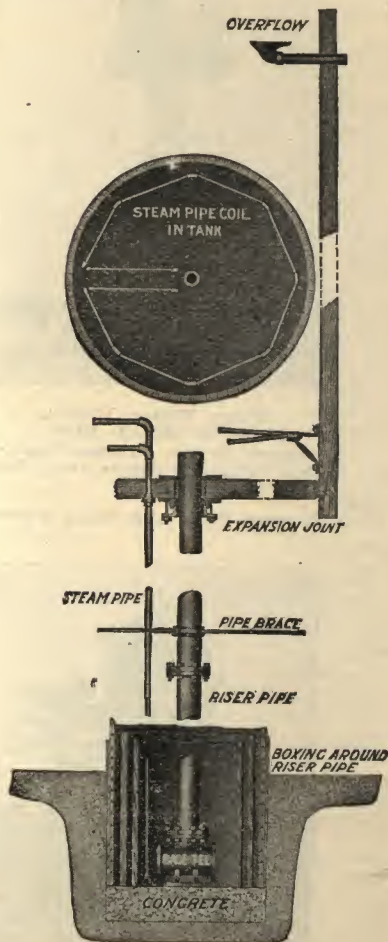


"THE TANK
WITH A
REPUTATION"

PIPING AND ACCESSORIES

**FROST PROOFING PIPING SYSTEM
FOR ELEVATED GRAVITY TANKS
AS INSTALLED TO SUIT INSUR-
ANCE REQUIREMENTS**

**COMBINED EXPANSION
JOINT AND PIPE
CONNECTION**



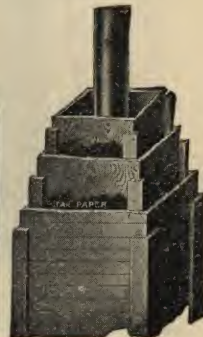
PIPE COVERING



One inch thick layer
of Hair Felt, with
Wool Felt and
Asbestos Cover-
ing.

**CIRCULAR
FROST
BOXING**

**SQUARE
FROST
BOXING**



**PIPE
FLANGE**

Furnished with
Bolts, Nuts,
Washers and
Rubber Gas-
kets.



TOWN WATER WORKS.

**Hemispherical Bottom Steel Tank
and Latticed Column Steel Tower.**



**Town Water Works, Virginia, Minn.
100,000 Gallon Hemispherical Steel
Tank. 75 Ft. Latticed Column
Steel Tower.**

**Cypress Tank and Tubular Column
Steel Tower.**



**Town Water Works,
Harbor Beach, Mich.
30,000 Gallon Cypress Tank.
51 Ft. Tubular Column Steel Tower.**

**Flat Bottom Steel Tank and Tubular
Column Steel Tower.**



**Town Water Works, Remsen, Iowa.
50,000 Gallon Steel Tank.
39 Ft. Tubular Column Steel Tower.**



**Town of Roscommon,
Roscommon, Mich.
20,000 Gallon Cypress Tank.
39 Ft. Wood Tower.**



TOWN WATER WORKS

The last few years has seen the stand-pipe, once used so extensively for water-works systems for small towns and villages, almost entirely discarded in favor of the elevated tank. The greater safety and efficiency of the elevated tank make it much the more economical and satisfactory. In the stand-pipe there is a pressure that is rapidly lowered with the use of the water until with half the contents gone it quickly dwindles below a safe working limit. The small diameter and great height of the stand-pipe add very much to the weight and stability it is necessary to provide to insure its safety and often result in damage from ice that does not occur with the elevated tank on account of its much larger diameter.

We construct these outfits with either Wood or Steel Tanks and contract to put the job up complete.

Some of the towns that have installed a Caldwell Tank and Tower are given below.

ALABAMA.

Columbiana.
Marion.
Uniontown.

ARKANSAS.

Forrest City.
Warren.
Dermott.
Hamburg.
Lonoke.

COLORADO.

Eaton.

CONNECTICUT.

Thompson.

DELAWARE.

Frederica.

FLORIDA.

Bartow.
Clearwater Harbor.
Jasper.
Plant City.

GEORGIA.

Baxley.
Eastman.
Ellaville.
Pretoria.

ILLINOIS.

Breese.
Ladd.
LaHarpe.
Lebanon.
Loraine.
Mendon.
Morrisonville.
New Baden.
Plymouth.
Waynesville.
Weldon.

INDIANA.

Converse.
Royal Center.

IOWA.

Doon.
Granville.
Kingsley.
Orange City.
Remsen.
Rock Valley.
Sheldon.
Vail.
Waverly.
Clearance.

KANSAS.

Enterprise.
Girard.
Liberal.

KENTUCKY.

Adairsville.
Barlow.
Shawnee Park.
Louisville.
Middlesborough.
Princeton.
Danville.

LOUISIANA.

Bastrop.
Mer Rouge.
Plaquemine.
Oak Ridge.

MAINE.

York Beach.

MARYLAND.

Havre de Grace.
Blue Ridge Summit.
Princess Anne.
Mt. Washington.

MICHIGAN.

Ovid.
Sand Beach.
Shepherd.
Roscommon.
Township of Hematite.

MINNESOTA.

Hibbing.
Virginia.
Adrian.
Bovey.
Northome.

MISSISSIPPI.

Baldwyn.
Bolton.
Indianola.
Scranton.
Shuqualak.
Gunnison.

MISSOURI.

Concordia.
Excelsior Springs.
Louisiana.

MONTANA.

Gardiner.

NEW JERSEY.

Allenhurst.
Lindenwald.
North Spring Lake.
Pitman Grove.
Westwood.
Cape May Court House.
Pitman.
Carson's Inlet.
Laurence Harbor.

NEW YORK.

Barren Island.
Haines Falls.

NEBRASKA.

Elmwood.
Rushville.

NEVADA.

Reno.

NORTH CAROLINA.

Aberdeen.
Concord.

OHIO.

Continental.
Kings Mills.
Marice City.
Oakwood.

OKLAHOMA.

El Reno.
Oregon.

PENNSYLVANIA.

Delta.
Ephrata.
Hillsboro.
Linwood.
Osborn.
Wyalusing.
Beaver Falls.
Rochester.

RHODE ISLAND.

Shawomet Beach.

SOUTH CAROLINA.

Pelzer.

TENNESSEE.

Brownsville.
Collierville.
McKenzie.
Manchester.
Somerville.

TEXAS.

Llano.
Shiner.
Corsicana.
Beeville.
Cross Plains.

VIRGINIA.

Cape Charles.
Coeburn.
Onancock.
Waynesboro.

WEST VIRGINIA.

Charleston.
Farmville.
Lewisburg.
Ronceverte.

WISCONSIN.

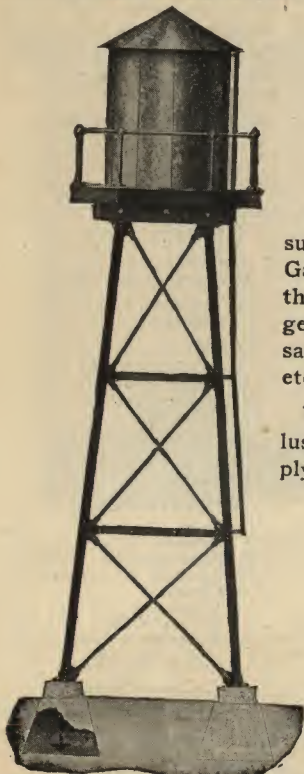
Monroe.
Knight.
Hillsboro.



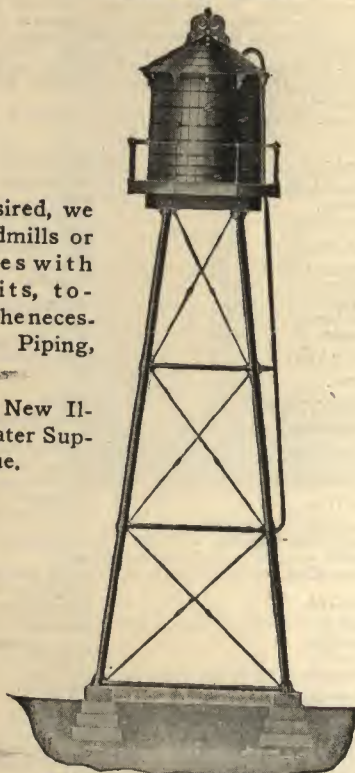
SMALL WATER WORKS TOWERS AND TANKS

Galvanized Tank with Angle Column Steel Tower. Furnished Painted or Galvanized

Cypress Tank with our Patent Tubular Column Steel Tower. Furnished Painted



1,000 Gallon Galvanized Tank
32 ft. Galvanized Tower



8,000 Gallon Cypress Tank
39 ft. Tower

When desired, we supply Windmills or Gas Engines with these outfits, together with the necessary Pump, Piping, etc.

Write for New Illustrated Water Supply Catalogue.

These outfits are attractive in appearance and very substantial in construction. They are designed along such simple lines that any local mechanic can easily erect them. We quote either knocked down or erected, however, as preferred.

We also furnish these outfits with the riser pipe and frost proofing material for both it and the tank, where this is required.

We also furnish plain heavy Steel Tanks with either of these towers.

These are both popular size outfits for Country Home Water Works Systems. If you are uncertain about what you need, state the conditions and we will help you decide.

Angle Column Towers are furnished with tanks of 1,000 to 15,000 gallons.

Tubular Column Towers are furnished with tanks of 1,000 to 30,000 gallons.

We supply either tower without Hand Railing or Ladder if so desired.

Detailed plans are supplied for putting in the foundations and for the erection. We quote for the erection, too, if desired.

Prices of Angle Column Towers are given on Page 29.

See Page 25 for prices of Tubular Column Towers.

Prices of Towers do not include the Tank, Cover and other articles which are listed elsewhere. See Index.



SMALL WATER WORKS TANKS AND TOWERS

With and Without Windmills



**Mr. J. W.
Thompson,
Columbus, Ind.
15 Foot Steel
Tower
1,500 Gallon
Cypress Tank**



**County Court
House,
Gloucester, Va.
10,000 Gallon
Cypress Tank
40 Ft.
Galvanized
Angle Tower**



**Mohawk Golf Club,
Schenectady,
N. Y.**



**Combined Windmill and
Tank Tower**



**J. A. Shuttleworth,
Danville, Ky.
5,000 Gallon Tank
39 Foot Tubular Tower**

RAILROAD TANK FIXTURES

Improved Valve, Outlet Pipe, Galvanized Spout and Fixtures



The above cut represents our Improved Tank Fixtures and Tank Outlet Valve, which are strictly frost-proof. We furnish these in five sizes—4, 6, 7, 8 and 10 inch.

	4 In.	6 In.	7 In.	8 In.	10 In.
Fixtures for 10 to 14 ft. diameter Tank	\$45.00	\$60.00	\$70.00	.....	.....
“ “ 16 “ “	55.00	65.00	75.00	\$ 90.00	\$125.00
“ “ 20 “ “	.....	70.00	80.00	95.00	135.00
“ “ 24 “ “	.....	75.00	85.00	100.00	145.00
“ “ 30 “ “	.....	82.50	92.50	110.00	160.00

Tank Outlet Valves (as per cut).

For 1 inch pipe....\$2.25	For 2½ inch pipe....\$ 5.00	For 6 inch pipe....\$12.00
“ 1¼ “ “ 2.50	“ 3 “ “ 6.00	“ 7 “ “ 15.00
“ 1½ “ “ 3.00	“ 4 “ “ 8.00	“ 8 “ “ 18.00
“ 2 “ “ 4.00	“ 5 “ “ 10.00	“ 10 “ “ 24.00

These valves cannot be furnished threaded to suit the standard pipe threads, but we can furnish a separate threaded pipe flange to match the flange of outlet valve, and will quote on application.

Write for discounts and freight rates or state outside bottom diameter and outside height of tank, distance from center of track to center of tank, and we will quote net delivered prices.



TANK GAUGES.

MERCURY TANK INDICATOR: It is connected to the tank by a small pipe or can be connected to any existing pipe leading directly to the tank where the velocity of the water is not great enough to decrease the pressure.

It is constructed without valve, spring or mechanism of any description, and is operated by the hydrostatic pressure of the water against the mercury which raises in the glass tube until it balances the pressure produced by the water.

As the length of the indicator varies with the height of the tank, orders should specify the vertical height from floor of room where indicator is to be placed to the bottom of the tank, and also the depth of the tank.

The indicators are made in two styles—iron body with brass scale, and polished brass body and scale which can also be nickeled.

Prices.

		IRON	BRASS	NICKELLED
For heights up to 50 feet.		\$12.00	\$24.00	\$26.00
"	betw. 50 & 100 ft.	14.50	28.50	31.00
"	" 100 & 150 "	17.50	35.00	38.00
"	" 150 & 200 "	21.00	42.00	46.00
"	above 200 feet	special prices quoted.		

INDICATOR, GAUGE AND FLOAT.

This Gauge is laid off in feet and decimals of a foot, having a white background with three-inch figures painted thereon in black and is furnished with a brass chain for attaching the sliding gauge and a copper ball float with pulleys over which the chain runs.

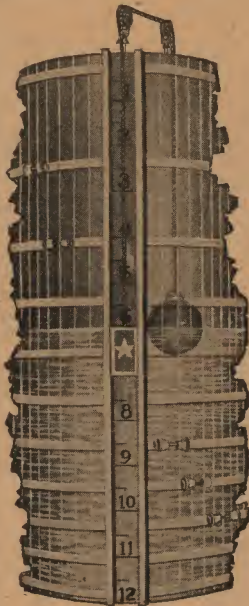
This is neat and substantial and inexpensive.

Price List.

For Tanks	6 ft. and less in height.....	\$4.80
"	7 ft. to 8 ft. in height (inclu.)	6.00
"	9 " 10 " "	7.80
"	11 " 14 " "	10.20
"	15 " 18 " "	13.20
"	19 " 20 " "	15.60
"	21 " 24 " "	18.00
"	25 " 26 " "	21.60

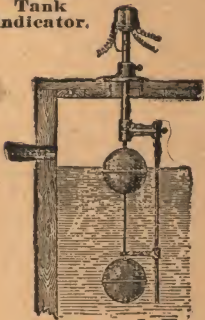


Mercury Tank Indicator.



Indicator, Gauge and Float.

CALDWELL TELL-TALE FLOATS.



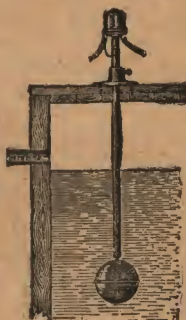
No. 1.

High and Low Water Floats for Closed Tanks.



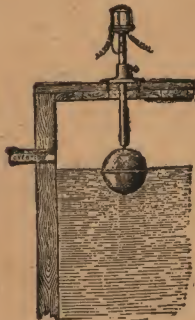
No. 2

High and Low Water Floats for Open Tanks.



No. 3

Low Water Floats.



No. 4.

High Water Floats.

Price List.

No. 1.	For High and Low, closed tank.....	\$12.00
No. 2.	For High and Low, open tank.....	12.00
No. 3.	For Low Water, open or closed tank.....	7.00
No. 4.	For High Water, open or closed tank.....	7.00
Extra lengths on single or double floats.....	Per foot,	.40

Write for discounts; also special, illustrated, descriptive circular.

Write for discounts; also special, illustrated, descriptive circular.

State distance you want floats below top end of stave.



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CHICAGO

